







SUBJECTS

Key to subjects indicated by numbers against the names of research workers.

- 1. Directors and Superintendents of Agriculture, Forestry or Veterinary Science, Directors of General Agricultural, Forestry or Veterinary Research Institutes or Experiment Stations.
- 2. Soils, Fertilisers, Plant Nutrition.
- 3. General Botany and Plant Physiology.
- 4. Plant Breeding.
- 5. Plant Chemistry.
- 6. Plant Pathology (not classified under 19-21).
- 7. Arable Crops.
- 8. Grassland, Herbage and Fodder Plants.
- 9. Horticulture.
- 10. Forestry-Silviculture and Management.
- 11. Forest Products (Major and Minor) and Utilisation.
- 12. Plant Husbandry (not classified under 2—11 and including Seeds and Weeds).
- 13. Animal Anatomy and Physiology.
- 14. Animal Breeding.
- 15. Animal Nutrition.
- 16. Animal Pathology (not classified under 19-23).
- 17. Animal Production (including Dairying).
- 18. Animal Husbandry (not classified under 13-17).
- 19. Entomology.
- 20. Mycology.
- 21. Helminthology.
- 22. Bacteriology, Viruses and related Immunology.
- 23. Protozoology.
- 24. General Chemistry.
- 25. Biochemistry.
- 26. Climatology.
- 27. Economics.
- 28. Engineering.
- 29. Statistics.
- 30. Preservation and Transport.

ERRATUM

Page 50, under Great Britain, for F. R. Stubbs read F. R. Tubbs.

INTRODUCTION

The List contains the names and addresses and, where information has been supplied, also the telephone numbers, of agricultural and forestry research workers (including veterinary research workers) up to the end of 1949, with an indication generally of the lines of study in which each worker is specially interested.

Opportunity has been taken, as a result of suggestions received from various sources, to expand and re-arrange the subject list and, for the convenience of those who use the publication, to display the Key numbers more prominently (see pages 3 and 312). Any suggestions for the further improvement of the subject list would be welcomed.

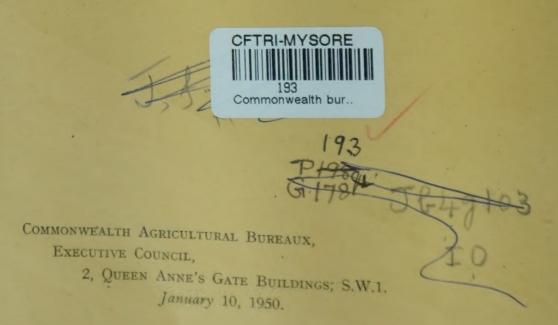
The volume is divided into six parts. Parts A and B comprise the List; parts C, D. E and F are indices to the List.

Part A gives details for Commonwealth Institutes and Bureaux concerned with the distribution of scientific information among research workers and in addition particulars for the Bureau of Biological Control, the Potato Collection and the Bureau of Tropical Hygiene; Part B gives by countries the names and addresses of research workers. In both these parts, the subject in which an officer is interested is indicated by a Key number; also, in most cases, a brief description of the special work on which he is engaged.

Part C is an index of the pages in the List in which details are to be found of workers in different subjects arranged under countries; Part D is an index of the pages in the List in which details are to be found of workers in different subjects arranged under Key numbers. Part E is an alphabetical index of the names of workers, and Part F, which is a new feature, is an index of institutions mentioned in the List.

The particulars given in this publication have been compiled from information supplied by the Governments and authorities concerned. Errors, where they occur, may be brought to notice.

Particulars of research stations will, it is hoped, be issued in the near future as a supplement to this list.



-COMMONWEALTH BUREAUX



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T. R. R. Mann, M.D., Ph.D. (Problems of Fertility and Sterility) at the Molteno Institute of Biology and Parasitology, University of Cambridge.	14, 25
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H. L. G. Stroyan, M.A. (Taxonomic work on British insects of agricultural importance) at the Department of Zoology, University of Cambridge, Downing Street, Cambridge.	19
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oyal Botanic Gardens Kew, Surrey.	
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S. Campbell, B.Agr.: crop husbandry (grassland)	-
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Miss R. Lloyd.	

	1.5.18
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J. A. C. Watson, A.R.I.C., Analysis.	25
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R. Varley, B.Sc.	
W. Finding, M.A. F. T. Roberts, B.S. A.R.C.S. Physics Pathologists.	0
	G
R. G. Hughes, R.S.: crep husbandry	7
D. J. C. Jones, M.Sc. Corep husbandly grassland). W. G. Gwynne, B.Sc. Corep husbandly grassland).	8
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and Jean in	18
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W. O. Sharp, M.Sc.	-
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H H Glasson M.S.	
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J. N. Sharrock, N.D. A. N.D. D. Grop bushandry,	
if a Chipiving a.e., M.Sc.: crop husbandry (grassland)	
The Control of the co	,
A D. Harrison, N.D.H. Schottermanne of Past Marling Research	0
W. N. Evans I. C. Todd, B.Sc.	

A H Rurgess D.C.	Subject
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J. F. Southey. L. Ogilvie, M.A., M.Sc.	
A. G. Robertson, B.Sc. Plant Pathologists.	6
Miss V. M. Wehrle, B.Sc.	U
W O Connold R So	7
A. H. R. Lilly, N.D.A. crop husbandry.	7
W. E. Jones, B.Sc.	
T. H. Davies, B.Sc. crop husbandry (grassland).	8
M. Roberts, B.Sc.	
T. F. Blood, M.A.	
Austin Jenkins. H. W. Tomlinson, N.D.A., N.D.D. Austin Jenkins. Hivestock husbandry.	18
H. T. Horsman, M.B.E., B.Sc., N.D.A.	
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L. T. Weston.	
S. Gibson, B.Sc., N.D.A., N.D.D.: milk production.	17
G. E. Burkitt, N.D.P.: poultry.	18
F. A. Roach, B.Sc. horticulture.	9
Mrs. M. M. B. Tuke, B.Sc.	
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H. G. Morgan, M.A. Entomologists.	19
H. C. Woodville, B.Sc., A.R.C.S.	
G. H. Brenchley, B.A. Plant Pathologists.	6

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R. Garrett-Jones, B.Sc.: crop husbandry (grassland)	8
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T. G. Davies, M.Sc.	6
D. L. G. Davies, B.Sc., Ph.D.: Plant Pathologist.	6 7
A. J. Davies, B.Sc.: crop husbandry.	′
M. T. Thomas, B.Sc. crop husbandry (grassland)	8
H. C. Bowen, B.Sc. Scrop hasbandry (grassland) T. Gee, livestock husbandry.	18
W. P. Dodgson	10
W. S. Shattock, N.D.A.: farm machinery.	28
T Idwal Iones N D A N D D	
Miss Mena Jones, N.D.D. milk production.	17
W. Evans, N.D.P.	
R. F. Hall, N.D.P. poultry.	18
S. Jackson, N.D.P.	
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Miss A. A. Nicholls, B.Sc., Ph.D., N.D.D. Mrs. P. M. Hobson. Bacteriologists.	17, 22
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J. R. Griffiths, M.Sc., Nutrition Chemist.	15, 25
F. H. Jacob, M.Sc., Entomologist.	19
T. Whitehead, M.Sc., Ph.D., A.R.C.S.	
T. D. Holmes, B.Sc.	6
S. C. Melville, B.Sc.	
D. E. Edwards, M.Sc.: crop husbandry (grassland)	8
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Headquarters: University College of South Wales and Monmouth,	
Cardiff.	l
J. E. Watkin, B.Sc., Ph.D., Soil Chemist.	,
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TITIES NOT BUT BUT BUT BUT BUT BUT BUT BUT BUT BU	Subject
I. H. H. Yarrow, M.A., Ph.D., D.I.C., W. J. Bevan, M.Sc. Miss S. Lewis, B.Sc.	
W. J. Bevan, M.Sc. Entomologists.	19
Miss S. Lewis, B.Sc.	
J. Rees, B.A., M.Sc. J. B. Jones, B.Sc., Ph.D.	6
J. B. Jones, B.Sc., Ph.D.	
J. M. Willcock, N.D.A., N.D.D.: crop husbandry (grassland).	8
W. H. Lawrence: horticulture.	9
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W. H. Smith, B.A., Dip. Hort.	9, 30
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F. H. Armstrong, M.Sc., A.M.I.Mech.E.	11, 28
R. A. G. Knight, B.Sc. (Eng.), M.I.Mech.E.	
P. M. C. Lacey, B.Sc., D.I.C.	
J. F. S. Carruthers, B.Sc.	11, 28
R. H. J. Newall. products	
L. S. Doman.	
B. J. Rendle, B.Sc., A.R.C.S. E. W. J. Phillips, B.Sc., Ph.D., A.R.C.S. structure and identification of timbers.	3, 11
E. W. J. Phillips, B.Sc., Ph.D., A.R.C.S. J. D. Brazier, B.Sc.	
W W Barkon D So	
R. F. S. Hearmon, A.Inst.P.	11
TIT C C 1 11 D C NC A T C 1	E 11
W. G. Campbell, B.Sc., M.Sc., A.I.C. Schemistry of wood	5, 11

R. H. Farmer, D.Sc., F.R.I.C. K. St. G. Cartwright, M.A., D.I.C.

J. G. Savory, B.Sc.

W. P. K. Findlay, D.Sc., A.R.C.S.

tacking timber.

investigation of fungi at-

11, 20

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R. C. Fisher, B.Sc., Ph.D. \(\) investigation of insects attacking	
J. D. Bletchly, B.A., B.Sc. \int timber.	
W. C. Stevens, M.A., A.M.I.Mech.E.	44 00
D. D. Johnston. timber seasoning and	11, 28
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N. Turner. I Lather RS) problems relating to the machanical properties.	11 29
J. Latham, B.S. problems relating to the mechanical properties A. J. Foord. of timber and allied materials.	11, 28
N. A. Richardson, B.Sc., A.I.C. \ Preservation (including fire-	11, 28
D. N. R. Smith. proofing of timber).	11, 10
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Pest Infestation Laboratory	
London Road, Slough, Bucks. (Slough 21295.)	
(Insect pests of stored products)	
G. V. B. Herford, O.B.E., M.Sc., Director.	19
E. A. Parkin, Ph.D., M.Sc., D.I.C.	19
P. S. Hewlett, B.Sc.	19 19
J. A. Hope, B.Sc. insecticides.	19
A. A. Green (Blowflies).	19
T. A. Oxley, B.Sc., A.R.C.S.	3, 19
Miss M. B. Hyde, M.Sc.	3
M. E. Solomon, M.Sc. (Mites.) biology.	19
R. W. Howe, B.Sc., A.R.C.S.	19
Miss S. G. Rawle, B.Sc. (Clothes moths)	19
A. M. Cunnington.	19
W. Burns Brown, M.Sc., F.R.I.C., A.R.C.S., D.I.C.	24
S. E. Lewis, A.R.I.C. fumigants.	24, 25 24
H. K. Heseltine, B.Sc.	24
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M. Nimmo: silviculture.	10
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P. C. Gough :silviculture.	10
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A. A. Zukowski, B.A.: silviculture.	10
T. R. Peace, B.A.: forest pathology and mycology.	6, 10, 20
J. M. B. Brown, B.Sc.: forest ecology.	3, 10 10, 29
F. C. Hummel, B.A.: mensuration and statistics.	10, 49

pyrethrum.

	Subject
H. S. Hanson, M.Sc.: forest entomology. J. D. Matthews, B.Sc.: forest genetics.	4, 10
J. S. R. Chard, B.Sc.: census of woodlands.	10
J. L. F. Fergusson, B.Sc. : census of woodlands.	10
35, Manor Place, Edinburgh	
Tel: Edinburgh 30275. J. A. B. MacDonald, : silviculture.	10
I. Leadbeater, B.Sc.: silviculture.	10
A. M. Mackenzie: mensuration	10
J. W. L. Zehetmayr, B.A.: silviculture.	10
M. V. Edwards, B.A.: silviculture.	10
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Miss M. Mayer, B.Sc., A.R.C.S.: plant pathology.	6
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J. T. Hannen, M.A., A.R.C.S., A.R.I.C.: agricultural chemistry.	2, 5, 9
A. H. Cornfield, Ph.D., A.R.C.S.: agricultural chemistry.	2, 5, 9
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O. F. Lubatti, D.Chem., M.Sc., Lecturer in Chemistry of Insecticides	19, 24
with special reference to fumigation. W. F. Jepson, O.B.E., Ph.D., A.R.C.S.: applied entomology with	19
special reference to tropical problems.	1 9
D. R. P. Murray, M.A., Ph.D.: chemical aspects of insect physiology.	25
A. E. H. Higgins, A.R.C.S., D.I.C.: insecticides and appliances.	19
B. S. Gorringe, B.Sc., A.R.C.S.: insecticides with special reference to mercury and mercury compounds.	24
R. H. Blackith, B.Sc.: insecticides with special reference to	2.
purethrum	24

UREAT	BRITAIN
O. W. Richards, M.A., D.Sc., Reader in Entomology: research on	Subject 19
insect populations. Miss N. Waloff, Ph.D.: research in insect ecology and insect	19
population. Miss B. Jacobs, B.Sc.: protozoology.	23
Research Institute of Plant Physiology	
Prof. F. G. Gregory, D.Sc., F.R.S., <i>Director</i> . O. V. S. Heath, D.Sc., : stomatal problems. F. J. Richards, B.Sc. : chromatography in relation to mineral nutrition.	1 3 3
*B. D. Bolas, D.Sc.: manganese deficiency. Mrs. H. K. Porter, D.Sc.: phosphorylase mechanism in barley. Miss O. N. Purvis, Ph.D.: vernalisation of cereals. *E. S. J. Hatcher, Ph.D.: hormones in propagation of fruit. *C. L. Mer, Ph.D.,: hormone problems.	3 5, 25 3 3 3
*H. W. B. Barlow, B.Sc: fruit bud development.	3
W. W. Schwabe, B.Sc., A.R.C.S.: photoperiodism of chrysan-themum.	3
*F. W. M. Llewelyn, B.Sc., A.R.C.S.: oil spray damage. *C. R. Hancock, B.Sc.: hormones in propagation of fruit.	3
LONDON SCHOOL OF HYGIENE AND TROPICAL ME	DICINE
Department of Parasitology Keppel St., Gower St., London, W.C.1.	
Prof. H. E. Shortt, M.D., D.Sc., D.T.M. and H., <i>Professor of Medical Protozoology</i> : medical and comparative protozoology.	23
Prof. J. J. C. Buckley, D.Sc., <i>Professor of Helminthology</i> : medical comparative helminthology.	21
P. L. Leroux, D.Sc., M.R.C.V.S., Lecturer in Helminthology.	21
WYE COLLEGE	
Department of Agriculture	0 14 17
M. Mc. G. Cooper, B.Agr. Sc. (N.Z.), B.Litt. (Oxon.), Dip. Rural Econ. (Oxon.), <i>Prof. of Agric.</i> , <i>University of London</i> : animal husbandry, breeding and selection of farm livestock; utiliza-	8, 14, 17
tion of grassland and forage crops.	
A. C. Owers, B.A. (Cantab.), Dip. Agr. (Cantab.): poultry progeny testing.	14
A. G. Davis, M.Sc. (Wales), B.S.A. (Guelph.): grassland production and utilization.	8
A. C. Dunkin, B.Sc. (Agr.), Reading: pigs progency testing, nutrition and management.	14, 17
Department of Horticulture	
H. W. Miles, M.Sc. (Bristol), D.Sc. (Manchester), Professor of Horticulture, University of London: vegetable crop husbandry, entomology.	9, 12, 19

^{*}Working at East Malling Research Station.

N. B. Bagenal, B.A. (Cantab.), Dip. Hort. (Wye): pomology fruit	Subject 9, 12
tree nutrition.	9, 14
A. A. Jackson, B.Sc. (Manchester): horticulture; glasshouse crops; methods of intensive crop production.	9, 12
Mary Page, N.D.H., Dip. Hort. (Swanley): horticulture; methods of propagation; flower crop production.	9, 12
Mary Miles, M.Sc. (Manchester): entomology with special reference to soil insects.	19
Department of Physical Sciences	
R. L. Wain, D.Sc. (Lond.), Ph.D., M.Sc. (Sheff.), F.R.I.C.: chemistry—insecticides, plant growth—regulating substances.	24
Margaret S. Smith, B.Sc., Ph.D. (Lond.), A.R.I.C.: chemistry—insecticides.	24
C. F. Mills, B.Sc. (Reading): chemistry—copper status of plants. D. A. Pantony, B.Sc. (Lond.), Ph.D. (Leeds): chemistry—plant	5 24
growth-regulating substances R. C. Seeley, B.Sc. Agri. (Lond.): chemistry—investigations with pollen extracts.	24
Daphne J. Osborne, M.Sc. (Lond.): chemistry—plant growth-regulating substances.	3, 24
Department of Biological Sciences	
M. D. Froud, B.Sc. (Lond.): animal anatomy and physiology—hatching of pedigree stock eggs.	13
R. P. Gould, B.Sc. (Lond.): animal anatomy and physiology—studies of chick development.	13
P. A. Holwill, B.Sc. (Lond.): general botany—fruit bud differentiation and anatomy of apple shoots.	3
N. L. Penston, B.A., D.Phil. (Oxon.), F.L.S. plant physiology—with Molly Sanderson, B.Sc. (Lond.) hormones and growth	3
F. C. Schimmer, B.Sc. (Lond.), A.R.C.S.: plant pathology; carnation ring spot, and control measures.	6
1. W. Selman, B.Sc. (Lond.), Ph.D. (Lond.): plant physiology— (i) soil conditions and fruiting and disease resistance of outdoor	3
tomatoes; (ii) winter hardiness in lettuce.	
epartment of Hop Research	
A. H. Burgess, B.Sc. (Agr.), D.Sc., Dip. Agri. (Wye): hop research—cultivation and drying of hops.	1, 2, 30
F. C. Thompson, M.Sc., A.R.I.C.: hop research—investigation of soils and nutrition of hops.	2, 5
E. G. Cripps, B.Sc. (Agr.), Dip. Agri. (Wye): A.I.C.T.A.: hop research—investigation of soils and nutrition of hops.	2
S. O. S. Dark, B.Sc., Ph.D.: hop research—hop breeding and genetics.	4, 0
A. R. Tatchell, B.Sc.: hop research—chemical examination of hops. D. Wickham, B.Sc. (Agr.): hop research—field trials.	5

	Subject
Department of Economics	25
J. Wyllie, O.B.E., B.Sc. (Agr.) (Glas.), N.D.A. (Hons.), N.D.D., Principal Agricultural Economist: farm management.	27
J. B. Butler, M.Sc. (Lond.): fruit and market garden investiga-	27
tions.	
R. F. Lord, B.Sc. (Agr.) (Lond.): farm management.	27
J. H. Hooper, Dip. Agri. (Wye): farm management.	27
E. R. Woollard, Dip. Hortic. (Wye): fruit and market gardening.	27
J. M. Brewin, B.A. (Agr.) (Cantab.): farm management and hops.	27
D. H. Wylie, B.Sc. (Agr.) (Reading): milk production.	27
P. G. L. de Morpurgo, B.Sc. (Agr.) (Reading): milk production.	27
H. G. Halls: cost accounting.	27
BEDFORD COLLEGE FOR WOMEN	
Regent's Park, London, N.W.1. Tel.: Welbeck 5743.	
Botany Department	
Prof. L. J. Audus, M.A., Ph.D. (Cantab.): mechanism of action of	2, 3, 12
the plant hormone herbicides.	
Mr. P. R. Wareing, B.Sc. (Lond.): growth problems in forest and	3, 10
fruit trees.	
Forestry Commission	
Dr. Ida Levisohn, Ph.D. (Lond.): mycorrhiza and tree nutrition	2, 10
CAMBRIDGE UNIVERSITY .	
Animal Nutrition Research Institute	
J. Wishart, M.A., D.Sc., Reader in Statistics, Consultant.	29
Nutrition Section	
H. E. Woodman, M.A., Ph.D., D.Sc.	15
R. E. Evans, Ph.D.	15
Physiological Section	
J. Hammond, C.B.E., M.A., D.Sc., F.R.S.	13
A. Walton, Ph.D.	13 13
R. W. Pomeroy, M.A.	13
Poultry Nutrition	1 =
E. T. Halnan, M.A.	15
Poultry Genetics	
M. S. Pease, M.A.	14
D. G. Gilmour, M.A.	14
A. G. Cock, B.A.	14
Institute of Animal Pathology	
Milton Road, Cambridge	
Prof. W. I. B. Beveridge, M.A., D.V.Sc. (Syd.), Professor of Animal	22
Pathology, Director.	00
J. A. Young, M.C., M.B., Ch.B., Pathologist.	22 21
G. Lapage, M.A., M.D., M.Sc., Parasitologist.	15
R Scarisbrick, Ph.D., B.A., M.R.C.V.S., Biochemist.	

GREAT BRITAIN	
	Subject
Veterinary Investigation Department	
H I Field M Sc W R (V.S., Letermary Investigation Officer.	22
K. C. Sellers, B.Sc., M.R.C.V.S., D.V.S.M., Assistant Veterinary	00
Investigation Officer.	22
Plant Breeding Institute	1
G. D. H. Bell, Ph.D., Director.	1, 4
Sir F. L. Engledow, C.M.G., M.A., F.R.S., Drapers' Professor of	1, 7
Agriculture: wheat.	4
C. Barclay, M.A.	4
G. K. G. Campbell, B.Sc., A.I.C.T.A.	4
H. W. Howard, Ph.D. J. L. Fyfe, M.Sc.	4
F. G. H. Luptow, B.A.	4
S. G. Stephens, M.A.	4
R. N. H. Whitehouse, M.A.	4
Horticultural Research Station	
D. Boyes, M.A.	9
G. D. Sullivan, B.Sc.	9
R. M. Woodman, Ph.D., F.I.C.	9
D. W. Wright, M.A.	9
H. Williams, B.Sc.	7
School of Agriculture	
School of Agriculture Prof. Sir F. L. Engledow, C.M.G., M.A., F.R.S., Drapers' Professor	1, 4
of Agriculture.	_, .
A. J. Brookes, M.A.: animal husbandry	18
S. Dickinson, M.A., M.Sc.: plant pathology	20
E. C. Childs, Sc.D.: soil physics.	2
F. Hanley, M.A.: crop husbandry.	7
F. G. W. Jones, M.A.: entomology.	19
J. Line, M.A.: botany.	3
W. S. Mansfield, C.B.E., M.A., Director of the University Farm, and	18
Animal Husbandry.	2=
A. W. Menzies-Kitchin, Ph.D.: agricultural economics.	27
H. H. Nicholson, M.B.E., M.A.: soil science. P. W. Arnold, M.A.: soil science.	2 7 2 6
M. G. Barker, M.A.: crop husbandry.	7
N. C. George, Ph.D.: soil physics.	,
R. Leach, B.A.: plant pathology.	6
W. T. Ridgman, M.A.: crop husbandry.	7
F. G. Sturrock, B.Sc.: accountancy.	27
J. H. S. Wilkinson, M.A.: animal husbandry.	18
Plant Virus Research Unit (Agricultural Research Council)	
Kenneth M. Smith, D.Sc., Ph.D., F.R.S., Director.	22
Roy Markham, M.A., Ph.D.	22
J. D. Smith, M.A., Ph.D.	22
J. H. Hitchborn, B.Sc.	22

Subject

OXFORD UNIVERSITY	
Agricultural Economics Research Institute Parks Road, Oxford. Tel.: Oxford 2775. A. W. Ashby, C.B.E., M.A., Director. R. N. Dixey, M.A. J. R. Raeburn, M.A., B.Sc. (Agr.), M.S., Ph.D. K. E. Hunt, M.A. D. K. Britton, M.A., B.Sc.	27, 29
G. P. Hirsch, M.A. R. R. W. Folley, B.Sc. (Econ.), B.Comm. P. A. Manning, M.A., Ph.D. H. A. Beecham, B.A. H. A. Rhee, M.A. J. C. Abbott, B.A.	27, 29
Department of Agriculture	
Parks Road, Oxford. Tel.: Oxford 3322. G. E. Blackman, M.A., Head of Department and Professor of Rural 1	1, 3, 5, 29
Economy. E. W. Russell, Ph.D., M.A., Reader in Soil Science - soil ecology.	2
University and Department Demonstrators	
G. D. Amery, M.A.	. 27
G. R. Clarke, M.A.: pedology.	2
J. C. B. Ellis, M.A.	15 6, 20
J. L. Harper, B.A. A. J. Marshall, Ph.D.	13
R. Scott Russell, M.A., M.Sc., Ph.D.	2, 3
M. H. R. Soper, M.A.	8, 18
Research Assistants E. K. Woodford, Ph.D., M.A., Assistant Director of Research on Phytocidal Action and Experimental Agronomy.	3, 5, 7
O. N. Bishop, B.Sc.	3
E. S. Bunting, B.Sc.	4, 29
K. Holly, B.Sc. (Agr.): herbicides.	3, 5 3, 5
G. W. Ivens, B.A.: herbicides. R. P. Martin, M.A.: physics.	3, 3
H. A. Roberts, B.Sc.: herbicides.	3, 5
E. W. Simon, M.A.: herbicides.	3, 25
epartment of Forestry, Imperial Forestry Institute	
Parks Road, Oxford. Tels: Oxford 2931, 3131.	475 4.4
H. G. Champion, C.I.E., M.A., Head of Department and Professor of Forestry.	10, 11
M. L. Anderson, D.Sc.: mensuration and forest practice.	10
N. V. Brasnett, M.A.: management.	10
L. Chalk, M.A., D.Phil.: wood anatomy.	1()

D

D

GREAT BRITAIN	
·	Subject
R. N. Chrystal, Hon. M.A., D.Sc., Forest Entomologist.	10, 19
W. R. Day, M.A., B.Sc.: forest pathology.	6, 20
G. W. Dimbleby, M.A., B.Sc.: ecology.	2, 3 2, 20
W. R. C. Handley, Ph.D.: microbiology. A. C. Hoyle, M.A., B.Sc. (Department of Botany): systematic	2, 20
forest botany.	
E. W. Jones, M.A., Ph.D.: silviculture.	10
L. Leyton, Ph.D.: tree physiology.	2, 3
A. H. Lloyd, O.B.E., M.C., T.D., M.A.: forest engineering and	10, 11
utilisation.	10.07
J. J. MacGregor, B.Litt., B.Sc., M.S.: forest economics.	10, 27
P. E. W. Murphy, B.Agr.Sci.: soil research.	2
P. J. Rennie, B.Sc.: soil research. F. White, B.A.: systematic forest botany.	3
1. White, D.M Systematic forest bottomy.	
BRISTOL UNIVERSITY	
Agricultural and Horticultural Research Station	
Long Ashton.	
T. Wallace, Director: plant nutrition; soils; fruit quality and	1, 2, 5, 9
storage.	24
CHEMISTRY	
H. Martin, D.Sc., A.R.C.S., F.R.I.C.: chemical methods of disease	5, 6, 24
and pest control.	0, 0, 21
C. Bould, M.Sc., Ph.D.: soils and nutrition of fruit plants.	2, 5, 9
D. J. D. Nicholas, B.Sc., Ph.D., A.K.C., Chemist: mineral nutri-	2, 3, 5, 25
tion of plants.	
J. A. H. Tolhurst, B.Sc. (Agr. Chem.), Chemist: soils and plant nutrition.	2, 5, 9
W. A. Forster, B.Sc. (Chem.): mineral nutrition of plants.	2, 5, 9
miletal flatition of plants.	4, 5, 9
BIO-CHEMISTRY	
A. Pollard, M.Sc., Ph.D.: fruit and vegetable quality; fruit prod-	5, 25
ucts. Margaret E. Kieser, B.Sc., A.R.I.C.: fruit and vegetable quality;	F 05
fruit products.	5, 25
Audrey Stone, B.Sc.: fruit and vegetable quality; fruit products.	5, 25
	J, 2 J
ORGANIC CHEMISTRY	
D. Woodcock, M.Sc., Ph.D., A.R.I.C.: synthesis of organic in-	5, 6, 24
secticides and growth substances. A. H. Williams, M. A. R. So.: minoral publishers of the section of the secti	
A. H. Williams, M.A., B.Sc.: mineral nutrition of plants.	2, 5, 25
PHYSICAL CHEMISTRY	
W. D. E. Thomas, B.Sc., Ph.D., A.R.I.C.: chemical methods of	6, 24
disease and pest control; application of radioactive tracers.	0, 41

ENTOMOLOGY

B

C

P

H. G. H. Kearns, B.Sc., Ph.D., Dip.Agri.: pests of fruit and 6, 10, 28 willows; bio-assays; spraying machinery and equipment.

A. Stringer, B.Sc., A.R.C.S., Entomologist: insecticidal bioassays.	Subject 6, 19
S. H. Bennet, B.Sc.: fruit pests; bio-assays. N. G. Morgan, B.Sc.: fruit pests; spray mechanics.	6, 19, 28 6, 19, 28
Mycology	
R. W. Marsh, M.A.: diseases of fruit. S. H. Crowdy, B.Sc., A.R.C.S.: diseases of fruit.	6, 20 6, 20
PLANT PHYSIOLOGY	
E. J. Hewitt, B.Sc., Ph.D., A.K.C.: mineral nutrition of plants; pot culture methods.	
W. Plant, B.Sc. (Hort.), Ph.D., Field Investigations Officer: mineral nutrition of plants. F. W. Lones, M.Sc. Plant Physiologist: mineral nutrition of plants.	2, 3,5
E. W. Jones, M.Sc., <i>Plant Physiologist</i> : mineral nutrition of plants.	. 2, 3, 5
Pomology G. T. Spinks, M.A., Dip. Agri.: fruit breeding; rootstocks for hardy fruits.	4, 9
L. C. Luckwill, B.Sc., Ph.D.: plant hormones; physiology of tree growth and fruit development.	3, 9
E. W. Hobbis, B.Sc., N.D.H.: practical pomology.	9
CIDER	
Emeritus Professor B. T. P. Barker, M.A.: vintage fruit (apples and pears); microbiology.	9, 22, 25
S. W. Challinor, D.Sc., Ph.D., F.R.I.C.: cider and perry fermentation; microbiology and biochemistry.	9, 22, 25
L. F. Burroughs, B.Sc. (Agr. Chem.), A.R.I.C.; cider and perry; biochemistry.	9, 25
FRUIT AND VEGETABLE PRESERVATION	
Miss B. A. Crang, B.Sc.: chemistry of food; domestic preservation. Miss M. Sturdy, B.Sc. (H. and S.S.): chemistry of food; domestic preservation.	
Fruit and Vegetable Preservation Research Station	
Campden, Glos. (Tel.: Campden 319).	
The activities of this Station are confined to advisory and research work on commercial canning, bottling, and quick freezing.	
F. Hirst, M.Sc., A.R.C.Sc., Director.	30
W. B. Adam, M.A., F.R.I.C.: chemistry.	30
T. G. Gillespy, B.Sc., Ph.D., A.R.C.Sc.: bacteriology. F. Brown, M.Sc., Ph.D.: chemistry.	30 30
LIVERPOOL UNIVERSITY	
Department of Veterinary Pathology	
G. O. Davies, D.V.Sc., M.R.C.V.S., D.V.H., Head.	16
A. R. Jennings, B.V.Sc., M.R.C.V.S., Lecturer.	16
M. A. Soltys, B.V.Sc., Dr. Med. Vet., Ph.D., Lecturer.	16 16
I Scarnell B V Sc M R C V S. Assistant Lecturer.	10

READING UNIVERSITY

National Institute for Research in Dairying Shinfield, near Reading. (Tel.: Reading 83103).	
	1, 13, 17, 25
A. T. R. Mattick, B.Sc., Ph.D., Deputy Director.	17, 22
Heads of Departments	
S. Bartlett, M.C., B.Sc., Ph.D., N.D.D.: feeding and metabolism; nutrition of farm stock.	15, 17
G. W. Scott Blair, M.A., Ph.D., D.Sc., F.R.I.C., F.Inst.P.: chemistry and physics; rheological properties of dairy material; application of psycho-physics in dairy industry.	17, 24
Miss D. V. Dearden, N.D.D.: dairy; manufacture of butter and cheeses.	17
S. J. Folley, Ph.D., D.Sc.: lactational physiology; biochemistry and endocrinology.	13, 17
A. S. Foot, B.Sc. (Agr.), M.S.c.: dairy husbandry; dairy husbandry and dairy farm management.	14, 17
H. S. Hall, B.Sc.: engineering; dairy engineering.	17, 28
S. K. Kon, Ph.D., D.Sc., F.R.I.C.: nutrition.	15, 17
A. T. R. Mattick, B.Sc., Ph.D.: bacteriology.	17, 22
OTHER MEMBERS OF STAFF	
A. R. Aschaffenburg, Ph.D.: chemistry and physics; colloidal properties of milk; control of pasteurisation.	17, 24
C. C. Balch, B.Sc.: feeding and metabolism; nutrition in relation to milk yield.	15, 17
Miss M. Baron, B.Sc.: chemistry and physics; rehological properties in cheese.	17
N. J. Berridge, B.Sc., Ph.D.: bacteriology; proteins; antibiotics.	17, 22
R. Braude, B.Sc. (Agr.), Ph.D.: dairy husbandry; dairy and pig husbandry.	15, 17
M. E. Castle, B.Sc. (Agr.), N.D.A., N.D.D.: dairy husbandry.	14, 17
Miss M. E. Coates, Ph.C.: nutrition; biological assay.	15
A. T. Cowie, B.Sc., Ph.D., M.R.C.V.S.: lactational physiology; endocrinology of reproduction and lactation.	13, 17
F. H. Dodd, B.Sc. (Agr.): dairy husbandry; cowshed management.	14, 17
T. H. French, B.Sc., M.R.C.V.S.: lactational physiology; biochemistry of reproduction and lactation.	13, 17
R. Harper, M.Sc.: chemistry and physics; psycho-physical aspects of dairying.	17
Miss K. M. Henry, B.Sc., Ph.D., A.R.C.Sc.I., A.R.I.C.: nutrition: mineral and protein metabolism.	15, 17
A. Hirsch, B.Sc. (Dairying), Ph.D.: bacteriology; antibiotics.	17, 22
Miss E. R. Hiscox, M.Sc., B.Sc.: bacteriology; flora of cheese-pasteurisation.	17, 22
Mrs. S. K. Kon, Ph.D., M.R.C.V.S.: Honorary Research Assistant: nutrition.	1.5

	Subject
F. K. Neave, B.S.A.: bacteriology; bovine mastitis.	17, 22
J. W. G. Porter, M.A., Ph.D.: nutrition; chemistry and meta- 15	
bolism of vitamins.	
S. J. Rowland, B.Sc., Ph.D., F.R.I.C., Research Analyst: chem-	17, 24
istry and physics; compositional quality of milk and milk pro-	
ducts.	
A. Rowlands, B.Sc., M.S.: bacteriology; bacteriology of milk	17, 22
production and pasteurisation.	,
Miss M. E. Sharpe, B.Sc.: bacteriology; investigation of faecal	17, 22
steptococci in outbreaks of epidemic neonatal diarrhoea.	,
Miss E. E. Shepheard, B.Pharm., Ph.C.: nutrition; biological assay.	15
Miss M. E. Taylor, B.A.: bacteriology; intestinal flora of mammals	17, 22
C. C. Thiel, B.Sc., Ph.D.: engineering; dairy engineering.	17, 28
S. Y. Thompson, B.Sc., Ph.D.: nutrition; biochemistry of nutri-	15, 17
tion.	
D. M. Walker, B.Sc. (Agr.), Ph.D., N.D.A. (Hons.): feeding and	15, 17
metabolism; gestation and calfhood.	
F. W. Wilby, B.Sc.: nutrition; microbiological assay.	15, 17
D. A. Balch, B.Sc. (Agr.): chemistry and physics; analytical	17, 24
chemistry.	
A. F. Bunker, A.M.I.E.E.: engineering; dairy engineering.	17, 28
H. Burton, B.Eng.: engineering; radio frequency sterilization.	17, 28
Miss M. Cawthorn, B.Sc.: bacteriology; lactic streptococci.	17, 22
C. P. Cox, M.A.: statistics.	29
F. A. Glover, B.Sc.: chemistry and physics; bovine secretions.	17, 24
Miss E. Grinsted, N.D.D.: bacteriology; antibiotics.	17, 22
C. L. Hannay, B.Sc., D.I.C., Ph.D.: bacteriology; serological	17, 22
classification of streptococci.	
G. F. Harrison, Ph.C.: nutrition; biological assay.	15
J. B. Hoyle, M.A.: engineering; dairy engineering	17, 28
Mrs. E. C. Latham, N.D.D.: bacteriology.	17, 22
J. M. Lee, B.A.: dairy husbandry.	17
S. P. Legg, B.Sc. (Agr.), B.A.: feeding and metabolism.	15, 17
Mrs. J. V. Marsden, B.Sc., N.D.D.: bacteriology.	17, 22
K. G. Mitchell, B.Sc. (Agr.), N.D.A.: dairy husbandry.	17
Miss D. M. Wheater, B.Sc.: bacteriology; antibiotics.	17, 22
aculty of Agriculture and Horticulture	
(Tel: Reading 4422)	
(1er. Reading 7722)	
GRICULTURE	•
Prof. H. G. Sanders, M.A., Ph.D., Dean of the Faculty.	12, 18
D. J. G. Black, B.Sc. (Agr.).	12, 18
H. F. Fieldsend, B.Sc. (Agr.).	12
S. Fox, B.A.	12, 18
J. Pearce, N.D.A., N.D.D.	18
J. Getty, B.Agr.	12, 18
J. N. Dominy, F.R.I.C.S., L.R.I.B.A.	28
J. W. Y. Higgs, M.A.	28
Miss E. W. Bobr, M.Sc.	18, 25

7	Subject
DAIRYING Prof. E. L. Crossley, B.Sc., F.R.I.C. Anne Sheppard, N.D.D. Valerie E. Cheke, N.D.D.	17, 22 17 17
Joan Whitmore, B.Sc. (Dairying).	17
Horticulture	
Prof. R. H. Stoughton, D.Sc., A.R.C.S. R. Barnwell, B.Sc. (Hortic.)	2, 3, 9
H. Fraser, N.D.H. Doris R. Hole, B.Sc.	9
F. W. Webb, N.D.H. J. R. Lloyd	9
Elspeth M. Harris, B.Sc. (Hortic.)	. 9
G. E. G. Mattingly, B.Sc. Margaret D. A. Johnson, B.Sc. (Hortic.)	25
Edith Rollin, B.Sc. (Hortic.)	2, 9
AGRICULTURAL CHEMISTRY	e
Prof. C. Tyler, B.Sc., Ph.D., A.R.I.C. F. H. Grimbleby, B.Sc., Ph.D., A.R.I.C.	15, 25
T. G. Taylor, M.A.	25 15, 25
J. Tinsley, B.Sc. (Agr.), Ph.D., F.R.I.C. A. Wild, B.Sc.	2 2
K. A. Hassall, B.Sc.	5, 25
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 D. W. P. Greenham, M.A.: manuring; cover crops. H. M. Tydeman: plant breeding. Miss E. M. Glenn, B.Sc.: field records; walnuts; rootstocks; plums. 	2, 8, 9 4, 9 9
Miss I. Modlibowska, Ph.D.: frost damage studies. A. P. Preston, N.D.H.: rootstock trials; pruning; meteorology. Miss E. C. Thompson: histology; apricots. Miss B. G. Mosse, B.Sc., Dip. Hort.: histology. Miss J. M. Paton, Hort. Dip: field records.	3, 9 9, 26 3, 9 3, 9
 Miss D. J. Wilson, B.Sc. (Hort.): field records; rootstocks; pears; strawberries. Miss C. P. Nicoll, B.Sc. (Hort.): propagation. C. H. W. Slater: frost damage studies—maintenance and construction of apparatus. 	9
Hop Section F. H. F. Beard, Hort. Dip.: hop culture.	9
T. N. Hoblyn, Hort. Dip., Head of Section: experimental design. S. C. Pearce, B.Sc., Deputy Head of Section: experimental design	9, 29 29
and interpretation; variation studies; recording technique. J. Taylor, M.A.: analysis of experimental results. Miss J. M. S. Thom: in charge of records; statistical analysis.	29 29
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M. C. Vyvyan, M.A., D.Sc., Head of Section: physiology of fruit	3
trees—growth and form; abscission. Miss M. R. Rawes: auxin assay by Avena test.	3
G. F. Trowell: measurement of growth, control of fruit drop. See Imperial College of Science and Technology, Institute of Plant Physiology, for four other workers collaborating with the Physiology and Biochemistry Sections.	3
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S. G. Thompson, M.C., M.A.: mineral nutrition of plants. A. C. Mason, B.Sc., F.R.I.C., Physical Chemist.	5

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(H.Q. University College, Dundee.)	
C. H. Cadman, B.Sc., Ph.D., In charge of Investigations: diseases	6, 20, 22
C. A. Wood, Ph.D.: cultural problems	,

	A. R. Hill, Ph.D.: insect pests. Miss T. Woollcombe, B.Sc. (Hort.), Assistant: diseases (stationed at E. Malling).	Subject 19 9
E	R. J. Rose, Assistant: glasshouse experiments. SSEX RED SPIDER INVESTIGATIONS	9
	(H.Q. Field Laboratory, Great Braxted, Essex.) Miss E. Collyer, B.Sc.: predators of fruit tree red spider.	19
В	Miss M. H. E. Davies, B.Sc.	3, 9
	HARPER ADAMS AGRICULTURAL COLLEGE	
	Newport, Shropshire. Note—The Officers concerned with Dairy Bacteriology, Entomology, and Mycology have been transferred to the new National Agricultural Advisory Service at "Woodthorne," Wergs Road, Tettenhall, Wolverhampton, the Economics Department to the Manchester University and the Veterinary Officers to the Ministry of Agriculture and Fisheries, New Haw, Weybridge, Surrey.	
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	W. King Wilson, Rabbit Specialist. Miss M. M. Wright, N.D.D., N.D.P., Waterford Research Assistant.	18
	W. Moore, N.D.P., Assistant Lecturer in Poultry Husbandry.	18
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	G. F. Kingston, M.A. (Catab.).	7, 14

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D. F. Constantine, B.A. (Cantab.)	7
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J. S. Coe, B.Sc. (Hons.).	2, 15, 24, 26
G. D. Glynne Jones, B.Sc.	19
D. A. MacPherson, B.Sc., M.R.C.V.S.	15, 19

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	R. J. Forsyth, A.R.I.B.A., A.R.I.A.S., Dip. Arch. research on farm	7 28
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Se	ed Testing and Plant Registration Station, and Plant Pathology Se	ervice
,	East Craigs, Corstorphine, Edinburgh, 12. (Tel.: Edinburgh 67265) Γ. P. McIntosh, B.Sc. (Agr.), Ph.D., Director.	/8). 1
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	ED TESTING AND PLANT REGISTRATION STATION J. Mitchell, B.Sc. (Agr.).	12
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1	Miss M. J. M. Noble, B.Sc. (Hons. Botany), Ph.D.: general and seed pathology.	6
F	A. E. W. Boyd, B.Sc. (Hons. Bot. Chem.), Ph.D.: general and	6
Ι	potato pathology. D. M. Henderson, B.Sc. (Hons.): virus diseases.	20, 22
Ŋ	Miss I. G. Montgomerie, B.Sc. (Hons. Botany). R. D. Reid: strawberry disease investigation. (Tel. Annbank 234).	20 4, 6
•	. D. Rold. Strawberry disease investigation. (101. Initioana 254).	7, 0
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C	D. J. Beilby,B.A., B.Litt., M.A.	27
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	Wright M.A. (Hons.).	27 27
J	. Wrigley, M.A. (Cantab.), B.A. (Cantab.), B.Litt. (Oxon.).	41
co	ttish Agricultural Machinery Testing Station Wounder Wideelder Wideshier (Tel.: Mideelder 221)	
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	G. Corbett, B.Sc. (Mech.).	28

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Mrs. M. M. Williams, B.Sc.	19	
UNIVERSITY OF ABERDEEN		
Forestry Department		
Prof. H. M. Steven, Head.	10	
Dr. E. V. Laing: study of variations in European Larch and other	10	
conifers.		
W. M. McNeill: influence of factors of site on the natural re-	10	
generation of tree species.		
Myles Crooke: ecology of Genus Evetria.	19	
EDINBURGH UNIVERSITY		
Department of Agriculture	1, 8, 15	
Prof. S. J. Watson, M.Sc., D.Sc., F.R.I.C., Head of Department.	8, 12, 18	
J. E. Gordon, B.Sc., Ph.D.: general agriculture. A. E. Cox, B.Sc.,: general agriculture.	12, 27	
R. G. Johnston, B.Sc., N.D.A.: general agriculture	12, 18	
R. G. Johnston, B.Sc., W.B.H general agriculture	12, 10	
Department of Botany		
Prof. Sir. W. Wright Smith, M.A., D.Sc., LL.D., F.R.S., Head of	1, 3, 9	
of Department.		
Alexander Nelson, Ph.D., D.Sc., N.D.A.: plant physiology and	3, 4, 8, 30	
agricultural botany.	40 44	
John Anthony, M.C., M.A., B.Sc.: forest botany.	10, 11	
Charles Andrew Lyall, B.Sc.: plant genetics and agricultural	3, 4, 8, 12	
botany. Malcolm Wilson, D.Sc.: forest and agricultural mycology.	6, 20, 22	
W. Blyth, B.Sc.: forest and agricultural mycology.	6, 20, 22	
	0, 40, 44	
Department of Animal Genetics		
Prof. C. H. Waddington, Sc.D., F.R.S., Head of Department and	1, 13, 14	
Laboratory: physiological genetics.		
C. Gordon, Ph.D.: physiological genetics.	13, 14	
A. D. Buchanan Smith, O.B.E., D.Sc., M.A., M.Sc., B.Sc.: live-	14	
stock genetics.		
G. H. Beale, M.B.E., Ph.D., B.Sc., A.R.C.S.: microbiological genetics.	14	
C. Auerbach, Ph.D.: chemical mutagens.	1.4	
R. Lamy, Ph.D.: mutations.	14	
R. Freedman, B.A.: immunogenetics.	14	
Genetics Laboratory		
(See also under Agricultural Research Council, Animal Breeding and Genetics Research Organisation.)		
R. A. Beatty, M.A.: polyploidy.	13, 14, 25	
H. G. Callan, B.A., Ph.D.: physiological cytogenetics.	14, 25	
D. S. Falconer, B.Sc., Ph.D.: selection.	14, 17	
I. L. Mason, B.A.: dual purpose cattle.	14 17	
E. C. R. Reeve, B.A., Ph.D.: selection of quantitative characters.	14, 17, 20	
J. M. Rendel, B.Sc., Ph.D.: dairy cattle.	14, 17, 20	

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GREAT BRITAIN Subject Physiology Department A. T. Phillipson, M.A., Ph.D., M.R.C.V.S., Head: digestion and metabolism of the ruminant. 13, 15 Miss B. C. Laing, M.B., Ch.B.: absorption from the gut. Miss D. Duncan, B.Sc.: innervation of the stomach. Miss M. Masson, B.Sc.: action of digestive juices on rumen organisms. Pathology and Bacteriology Department J. W. Howie, M.D., Head: effect of nutrition on resistance to infection. bacteriology 15, 22 J. M. Naftalin, M.B., Ch.B., D.P.H.: hisand immunology, 15, 16 tology and experimental pathology. Miss M. B. Richards, M.A., D.Sc., vitamins. viruses. F. Baker, F.R.M.S., D.I.C.: microbiology of digestion. G. Hunter, B.Sc.: helminthology. 21 W. A. Greig, B.Sc., M.R.C.V.S.: clinical pathology. 16 **Applied Nutrition** J. A. Crichton, M.A., B.Sc. long term effects of iodinated protein: 15, 17 J. Aitken, C.D.A. planes of nutrition in relation to milk 15, 17 production. D. E. Tribe, B.Sc., Ph.D. 15, 17 the behaviour of grazing animals. J. C. Gordon, B.Sc. 15, 17 J. C. Gill, B.Sc.: experiments on sheep. 15, 17 Miss J. R. McLagan, B.A., Dip. Agr.: experiments on pigs. 15, 17 Metabolic Section W. Thomson: metabolism studies and feeding experiments. 15 Statistics Section A. W. Boyne, B.Sc.: design and analysis of nutrition experiments. 15, 29 Miss M. J. Robertson, B.Sc., Assistant Experimental Officer. 29 **Duthie-Craibstone Farm** W. A. Biggar, M.C., B.Sc., Head: A. P. Moore, B.Sc., Dip. Agr. (North of Scotland College of farm management Agriculture) and 15, 17 W. J. Mudie. animal husbandry. E. L. B. Haskew, Assistant Experimental Officer. THE HANNAH DAIRY RESEARCH INSTITUTE Kirkhill, Ayr. N. C. Wright, M.A., D.c., Ph.D.: Director. J. A. B. Smith, B.Sc., Ph.D., D.Sc., F.R.I.C.: Deputy Director. 1 P. S. Watts, B.Sc., Dip. Bact., Ph.D., F.R.C.V.S.: veterinary 10 pathology.

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THE MACAULAY INSTITUTE FOR SOIL RESEARC	н
Craigiebuckler, Aberdeen. Tel. Aberdeen 7391. D. N. McArthur, D.Sc., Ph.D., F.R.I.C., F.R.S.E., Director.	1, 2, 24
edology	
R. Glentworth, B.S.A. (Manitoba), Ph.D., Head: soil survey (Scotland)	2
J. W. Muir, B.Sc. (Agr.), N.D.A., N.D.D.: soil survey (Scotland). J. C. Romans, B.Sc.: soil survey (Scotland).	2, 24
B. D. Mitchell, B.Sc.: soil survey (Scotland).	2, 24
H. G. M. Hardie, Ph.D., A.R.I.C.: soil analysis.	2, 24
R. Hart, B.Sc., Ph.D.: soil geology and mineralogy.	2
G. F. Walker, B.Sc., Ph.D.: X-ray investigations.	2
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ectrochemistry	
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il Organic Matter	
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Mrs. D. J. Eastwood, B.Sc.: microbiology.	40
nt Physiology	
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J. W. S. Reith, B.Sc. (Agr.), A.R.I.C. H. D. Welsh	2
J. R. Devine, B.Sc. (Agr.): field experiments. R. H. E. Inkson, B.Sc., Statistician.	29
ANIMAL DISEASES RESEARCH ASSOCIATION Moredun Institute, Gilmerton, Edinburgh, 9.	
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D. R. Wilson, D.Sc., M.R.C.V.S., D.V.S.M., F.R.S.E., Research Assistant, Experimental Pathologist. A. Foggie, Ph.D., B.Sc., M.R.C.V.S., Research Assistant.	22 22 22
Miss J. W. McCallum, Ph.D., B.Sc., Assistant Bio-chemist. A. M. Dunn, M.R.C.V.S.	15, 16, 25 16, 22
H. A. Robertson, B.Sc.	15, 16, 25
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G. Cockerham, B.Sc., Ph.D., Principal Scientific Officer: virus diseases of potatoes.	4
J. C. Haigh, B.Sc., Ph.D., A.R.C.S., Senior Scientific Officer: potatoes.	4
Donald Cameron, B.Sc., Senior Scientific Officer: cereals. Patricia J. Watson, M.A., Ph.D., Scientific Officer: herbage pla	. 4
T. Mairi R. McGhee, B.Sc., Scientific Officer: virus diseases of potatoes.	4
F. J. W. England, B.Sc., Temporary Assistant Experimental Officer: root crops.	4
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A. Comrie, B.Sc., A.R.I.C., Ph.D.	17, 24
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A. B. Calder, B.Sc. Jeanne Ingram, B.Sc.	2, 5

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T. Gibson, D.Sc.: bacteriology.	22, 3
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j. Williams.	22
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L. A. Mabbitt B.Sc.	20
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*D. Witney, B.Com.: agricultural economics.	27
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D. N. Lawley, M.A., D.Sc.: statistics.	29
*J. T. Stamp, B.Sc., M.R.C.V.S., Veterinary Investigation Officer.	16, 22
J. A. Watt, B.Sc., M.R.C.V.S., Assistant Veterinary	
D. I. Nisbet, B.Sc., M.R.C.V.S. \int Investigation Officers.	16, 22
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Principal.	_
George Dunlop, Ph.D., B.Sc., N.D.A., N.D.D.: animal husbandry.	18
Wm. J. A. Payne, B.A. (Hons.), M.A.	18
John Grainger, B.Sc., Ph.D.: plant pathology.	6
H. F. Dovaston, B.Sc.: plant pathology.	6
Donald F. Booth, B.Sc., M.Sc.: frost damage to crops (plant	6
pathology).	6
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economics. Helen C. McIver, B.Sc. (Agr.), N.D.D., N.D.A., C.D.D.	27
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utilization.	
Margt. J. Orr, N.D.D., C.D.D., : dairying, milk utilization.	17
June Hainsworth, B.Sc.: dairying, milk utilization.	17
Prof. H. Nicol, B.Sc., M.Sc., Ph.D., F.R.I.C.: chemistry.	2, 24
C. L. Whittles, M.A., Ph.D.: chemistry.	2

^{*}Specialist Advisory Officer.

⁽See also Edinburgh University, Departments of Agriculture and Agricultural and Forest Entomology).

	Subject
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D. S. Maclagan, B.Sc., Ph.D., D.Sc.: zoology.	19
James F. Malcolm, D.Sc., Ph.D., M.Sc.: bacteriology.	22
Elizabeth Macquarrie, B.Sc., N.D.D.: investigation into the in-	22
cidence of mastitis in dairy herds.	22
A. L. Wilson, M.R.C.V.S.: veterinary research.	16
James M. Robertson, M.R.C.V.S.: veterinary research.	16
W. G. Johnston, M.R.C.V.S.: veterinary research.	16
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Guy D. Morison, B.Sc., Ph.D.: entomology.	19
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J. L. Dawson, B.Sc. (Hons.): grassland management.	8
Walter Moore, B.Sc.: agricultural chemistry.	24
George Donald, B.Sc.: principles of agriculture.	12, 18
John C. Grant, M.R.C.V.S.: veterinary hygiene.	13, 18
David Clouston, M.A., B.Sc. (Agr.), D.Sc.: botany.	3, 12
David Robertson, B.Sc. (Agr.), Ph.D., D.Sc., N.D.A.: agricultural	21
zoology.	
R. Bain, B.Sc. (Agr.): Superintendent of Crop Experiments.	4, 7, 12
M. A. H. Tincker, M.A., D.Sc., F.L.S.: horticulture.	9
Alfred Hill, B.Sc., A.I.C.: agricultural chemistry.	2, 5, 24
Samuel Jamieson, M.R.C.V.S., D.V.S.M.: veterinary investigation.	16
Elizabeth G. Gray, B.Sc., Ph.D.: mycology.	6, 20
E. P. Jeffree, B.Sc.: bee research.	19
Gordon Murray, B.Sc. (Agr.), N.D.A., N.D.D., A.M.I.B.A.E.:	1
agricultural engineering.	28
Donald A. McKenzie, B.Sc. (Agr.), N.D.A., N.D.D.: agricultural	22
bacteriology.	
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Summerhall, Edinburgh 9.	
Prof. W. M. Mitchell, M.C., T.D., M.B., Ch.B., B.Sc., M.R.C.V.S.:	16
disabling diseases of horses.	
Prof. G. F. Boddie, B.Sc., M.R.C.V.S., F.R.S.E.: ketosis in cows.	15
Prof. A. Robertson, M.A., B.Sc., Ph.D., M.R.C.V.S., F.R.S.E.:	15
effect of changes in diet on metabolism of domestic animals.	
Prof. F. G. Boddie, B.Sc., M.R.C.V.S., F.R.S.E.: short wave	
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I. S. Beattie, B.Sc., M.R.C.V.S.: tuberculosis of bovine genitalia.	16
J. S. Garside, M.R.C.V.S., D.V.S.M.: streptococci, distribution in	22
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F. Alexander, Ph.D., M.R.C.V.S.: effect of humoral agents on the horse's digestive tract.	13
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J. S. S. Inglis, B.Sc., M.R.C.V.S.: environmental conditions in animal buildings.	18
D. E. Donald, B.Sc., M.R.C.V.S.: electrocardiograms of domestic animals.	13
A. Marr, B.Sc., M.R.C.V.S.: clinical study of milk fever.	
W. I. M. Macintyre, M.R.C.V.S.: canine leptospirosis.	
tationity it, M.R.O. V.S. Canine reprospirosis.	

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	Subject
PATHOLOGICAL LABORATORY	
Saanichton, B.C.	
E. A. Bruce, V.S., Officer in Charge.	16
Poultry Pathology Laboratory	
Central Experimental Farm, Ottawa.	
A. B. Wickware, V.S., Officer in Charge.	16
E. W. Bond, B.V.Sc., D.V.Sc., Junior Research Officer: pullorum	16
disease.	
Branch Laboratory Pacific Area	
Vancouver, B.C.	16
I. W. Moynihan, D.V.M., M.Sc., Officer in Charge.	10
Branch Laboratory, Maritime Area	
Sackville, N.B.	
J. F. Frank, D.V.M., M.Sc., Officer in Charge.	16
Parasitological Laboratory	
Institute of Parasitology, Macdonald College, P.Q.	
W. E. Swales, B.V.Sc., Ph.D., Senior Research Officer: parasitology.	16
W. T. Oliver, D.V.M., Junior Research Officer.	16
Division of Bacteriology and Dairy Research	
A. G. Lochhead, B.A., M.Sc., Ph.D., F.R.S.C., Chief of Division.	2, 22
E. G. Hood, B.S.A., Ph.D., Chief, Dairy Research.	17
C. K. Johns, B.S.A., M.Sc., Ph.D., Senior Bacteriologist: food	17, 30
micro-biology; dairying.	
A. H. White, B.S.A., M.S., Associate in Dairy Research.	17
M. I. Timonin, B.S.A., M.Sc., Ph.D., Bacteriologist: soil micro-	2
biology.	
H. Katznelson, B.S.A., M.Sc., Ph.D., Bacteriologist: bacterial	22
physiology; bee diseases.	
A. H. Jones, B.S.A., M.S.A., Associate Bacteriologist: fruit and	30
vegetable preservation.	
G. B. Landerkin, B.S.A., M.A., Associate Bacteriologist: bacterial	22
physiology; antibiotics.	
R. H. Thexton, B.S.A., M.S.A., Assistant Bacteriologist: soil	2
microbiology.	
R. H. Wallace, B.Sc., M.Sc., Ph.D., Assistant Bacteriologist: soil microbiology.	2
	2.2
C. E. Chaplin, B.S.A., M.Sc., Assistant Bacteriologist: disinfectants	22
Miss M. O. Burton, B.S.A., M.S.A., Assistant Bacteriologist: bac-	22
terial physiology and taxonomy.	22
K. N. Smith, B.Sc., M.Sc., Assistant Bacteriologist: dairy bac-	17
teriology.	17
LABORATORY OF PLANT PATHOLOGY,	
St. Catherines, Ontario.	
J. W. Rouatt, B.S.A., M.Sc., Assistant Bacteriologist: soil micro-	
biology,	04

Experimental Station, Summerland, British Columbia.	Subject
J. F. Bowen, B.S.A., M.S.A., Assistant Bacteriologist: food microbiology.	30
Division of Botany and Plant Pathology	
Central Laboratorty, Central Experimental Farm, Ottawa.	
J. H. Craigie, A.B., M.Sc., Ph.D., D.Sc., LL.D., F.R.S.C., Associate Director, Science Service, Chief of Division.	1
F. L. Drayton, B.S.A., Ph.D., F.R.S.C.: administration and mycology.	20
Botany	
H. A. Senn, B.A., M.A., Ph.D., Senior Botanist: taxonomy and cytology.	3
W. H. Minshall, B.S.A., M.Sc., Ph.D., Botanist: physiology.	3
J. R. B. Boivin, B.A., L.Sc., Ph.D., Botanist: taxonomy.	3
W. G. Dore, B.A., M.Sc., Ph.D., Associate Botanist: taxonomy and ecology.	3, 8
V. A. Helson, B.A., M.A., Associate Botanist: physiology.	3
C. Frankton, B.Sc., Ph.D., Associate Botanist: weeds.	8, 12
E. G. Anderston, B.S.A., M.Sc., Assistant Botanist: weeds.	12
R. J. Moore, B.A., M.A., Ph.D., Assistant Botanist: cytogenetics	3, 4
W. M. Bowden, B.A., Ph.D., Assistant Botanist: cytogenetics J. A. Calder, B.Sc., Assistant Botanist: taxonomy.	3, 4
W. J. Cody, B.A., Assistant Botanist: taxonomy.	3
A. R. T. Buckley, Assistant Curator: arboretum.	9
PLANT PATHOLOGY	
J. W. Groves, B.A., M.A., Ph.D., Plant Pathologist: mycology.	20
A. J. Skolko, B.Sc.F., M.A., Ph.D., Plant Pathologist: seed-borne	6
diseases.	6
A. W. McCallum, B.Sc.F., M.A., <i>Plant Pathologist</i> : forest pathology. H. N. Racicot, B.A., <i>Associate Plant Pathologist</i> : diseases of fruit	6
and vegetables.	
I. L. Conners, B.A., M.A., Associate Plant Pathologist: plant	20
disease survey and mycology. D. B. O. Savile, B.S.A., M.Sc., Ph.D., Associate Palnt Pathologist:	20
mycology.	
Miss R. Macrae, B.A., M.Sc., Ph.D., Associate Plant Pathologist:	20
forest mycology.	20
Miss M. K. Nobles, B.A., M.A., Ph.D., Associate Plant Pathologist: forest mycology.	40
R. J. H. Baylis, B.Sc.A., Assistant Plant Pathologist: diseases of	6
forage crops.	6 00
R. M. D. Sutton, B.A., Assistant Plant Pathologist: seed-borne	6, 22
bacterial disease V. R. Wallen, B.Sc.A., M.Sc., Assistant Plant Pathologist: seed-	6
borne diseases.	
L. Cinq-Mars, B.A., B.S.A., Assistant Plant Pathologist: diseases	6
of forsit	

	Subject
Miss R. M. Horner, B.A., M.Sc., Junior Plant Pathologist: forest mycology.	20
Miss C. G. McKeen, B.A., M.Sc., Junior Plant Pathologist: forest mycology.	20
FIELD LABORATORIES OF AGRICULTURAL PLANT PATHOLOGY	
LABORATORY OF PLANT PATHOLOGY, Charlottetown, P.E.I. R. R. Hurst, B.S.A., Plant Pathologist: diseases of potatoes.	6
G. W. Ayers, B.Sc., M.Sc., Associate Plant Pathologist: potato nematode diseases.	6
L. C. Callbeck, B.Sc., Assistant Plant Pathologist: diseases of potatoes.	6
D. B. Robinson, B.Sc., M.Sc., Assistant Plant Pathologist: diseases of potatoes.	6
LABORATORY OF PLANT PATHOLOGY, Kentville, N.S.	
J. F. Hockey, B.S.A., Plant Pathologist: diseases of fruits.	6
K. A. Harrison, B.S.A., M.Sc., Associate Plant Pathologist: diseases of fruits.	6
D. W. Creelman, B.Sc., Assistant Plant Pathologist: diseases of fruits.	6
LABORATORY OF PLANT PATHOLOGY, Fredericton, N.B.	
D. J. MacLeod, B.A., M.A., Ph.D., Plant Pathologist: virus	6, 22
diseases of potatoes. J. L. Howatt, B.S.A., M.Sc., Associate Plant Pathologist: diseases	6
of potatoes. R. H. Bagnall, B.S.A., Assistant Plant Pathologist: virus diseases of potatoes.	6
W. A. Hodgson, B.Sc.A., M.Sc., Assistant Plant Pathologist: diseases of vegetables.	6
LABORATORY OF PLANT PATHOLOGY, St. Anne de la Pocatière, Que. C. Perrault, B.S.A., M.Sc., D.Sc., Plant Pathologist: diseases of	6
field crops. R. O. Lachance, B.A., B.S.A., Ph.D., Associate Plant Pathologist: diseases of potatoes.	6
H. Genereux, B.A., B.S.A., M.Sc., Assistant Plant Pathologist: diseases of potates.	6
A. Payette, B.A., B.S.A., M.Sc., Junior Plant Pathologist: mycology.	20
LABORATORY OF PLANT PATHOLOGY, St. Catherines, Ontario.	
G. H. Berkeley, B.A., M.A., Ph.D., Plant Pathologist: diseases of fruit.	6
G. C. Chamberlain, B.S.A., Associate Plant Pathologist: diseases of fruit.	6
R. S. Willison, B.A., M.A., Ph.D., Associate Plant Pathologist: virus diseases of fruit.	(), mm
J. K. Richardson, B.S.A., M.Sc., Associate Plant Pathologist: diseases of vegetables.	0
R. G. Atkinson, B.S.A., Ph.D., Assistant Plant Pathologist: mycology.	20

ADOUATORY OF DIAMED DAMES IN CO. 1	Subject
LABORATORY OF PLANT PATHOLOGY, Harrow, Ontario. L. W. Koch, B.A., M.A., Ph.D., Plant Pathologist: diseases of field crops.	6
A. A. Hildebrand, B.A., M.A., Ph.D., Associate Plant Pathologist: diseases of corn and soybeans.	6
C. D. McKeen, B.A., Ph.D., Associate Plant Pathologist: diseases of vegetables.	6
W. E. McKeen, B.A., M.Sc., Ph.D., Associate Plant Pathologist: diseases of sugar beets.	6
Rust Research Laboratory, Winnipeg, Manitoba. T. Johnson, B.Sc., B.S.A., M.S., Ph.D., Plant Pathologist: cereal rusts.	6
J. E. Machacek, B.S.A., M.S.A., Ph.D., Plant Pathologist: cereal root diseases.	6
W. L. Gordon, B.S.A., M.Sc., Ph.D., Plant Pathologist: mycology. W. A. F. Hagborg, B.S.A., M.A., Ph.D., Plant Pathologist: bacterial diseases.	20 6, 22
A. M. Brown, B.S.A., M.Sc., Assistant Plant Pathologist: cereal rusts.	6
B. Peturson, B.S.A., M.S., Assistant Plant Pathologist: cereal rust. W. Popp, B.S.A., M.Sc., Assistant Plant Pathologist: cereal smuts. W. J. Cherewick, B.S.A., M.Sc., Ph.D., Assistant Plant Pathologist:	6 6 6
forage crop diseases. W. E. Sackston, B.S.A., M.Sc., Ph.D., Assistant Plant Pathologist: flax diseases.	6
H. A. H. Wallace, B.Sc., Assistant Plant Pathologist: cereal root diseases.	6
P. M. Simmonds, B.S.A., M.S., Ph.D., Plant Pathologist: diseases of cereals.	6
B. J. Sallans, B.S.A., B.A., M.Sc., Ph.D., Associate Plant Pathologist: cereal root diseases.	6
R. C. Russell, B.S.A., M.Sc., Ph.D., Associate Plant Pathologist: diseases of cereals.	6
H. W. Mead, B.Sc., M.Sc., Ph.D., Associate Plant Pathologist: diseases of forage crops.	6
R. J. Ledingham, B.Sc., M.Sc., Assistant Plant Pathologist: diseases of vegetables.	6
ABORATORY OF PLANT PATHOLOGY, Edmonton, Alberta. G. B. Sanford, B.S.A., M.S., Ph.D., Plant Pathologist: diseases of	6
potatoes. L. E. Tyner, B.Sc., M.Sc., Ph.D., Associate Plant Pathologist: root diseases of cereals.	6
T. R. Davidson, B.Sc., Assistant Plant Pathologist: virus diseases of potatoes.	6, 22
5. G. Fushtey, B.Sc.A., Assistant Plant Pathologist: diseases of cereals.	6
M. W. Cormack, B.S.A., M.Sc., Ph.D., Plant Pathologist: diseases of forage crops.	6

diseases of cereals. D. W. A. Roberts. B.A. Ph.D., Associate Bistanist plant physiology. LABORATORY OF PLANT PATROLOGY, Summerland. B.C. H. R. McLatty, B.A., M.A., Ph.D., Plant Pathologist diseases of fruit. M. F. Welsh, B.S.A., Ph.D., Plant Pathologist virus diseases of fruit. G. E. Woolhams, B.A., M.Sc., Associate Plant Pathologist diseases of vegetables. T. B. Lott, B.S.A., Assistant Plant Pathologist virus diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Vancouver, B.C. R. E. Fittpatrick, B.S.A., Assistant Plant Pathologist diseases of fruit. N. S. Wright, B.S.A., M.S.A., Assistant Plant Pathologist diseases of fruit. H. N. W. Toms, B.A., Januar Plant Pathologist diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Assistant Plant Pathologist diseases of rout. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of vegetables.	
D. W. A. Roberts. B.A. Ph.D., Associate Balancist plant physiology. Laboratory of Plant Pathology, Summerland. B.C. H. R. McLarty. B.A., M.A. Ph.D., Plant Pathologist diseases of fruit. M. F. Welsh. B.S.A., Ph.D., Plant Pathologist vivus diseases of fruit. G. E. Woolhams, B.A., M.S., Associate Plant Pathologist diseases of vegetables. T. B. Lott. B.S.A., Assistant Plant Pathologist vivus diseases of fruit. Laboratory of Plant Pathology, Vancouver, B.C. R. E. Fittpatrick, B.S.A., Ph.D., Plant Pathologist diseases of fruit. N. S. Wright, B.S.A., M.S.A., Assistant Plant Pathologist diseases of fruit. H. N. W. Toms, B.A., James Plant Pathologist diseases of fruit. Laboratory of Plant Pathology, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Pathologist plant pathology and physiology. W. Jones, B.S.A., M.S., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of vegetables.	
 H. R. McLatty, B. A., M.A., Ph.D., Plant Pathologist diseases of fruit. M. F. Welsh, B.S.A., Ph.D., Plant Pathologist virus diseases of fruit. G. E. Woolhams, B. A., M.Sc., Associate Plant Pathologist virus diseases of vegetables. T. B. Lott, B.S.A., Assistant Plant Pathologist virus diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Vancouver, B.C. R. E. Fitzpatrick, B.S.A., Ph.D., Plant Pathologist diseases of fruit. N. S. Wright, B.S.A., M.S.A., Assistant Plant Pathologist diseases of fruit. H. N. W. Toms, B.A., Januar Plant Pathologist diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Pathologist diseases of rout. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of vegetables. 	`
M. F. Welsh, B.S.A., Ph.D., Plant Pathologist vivus diseases of fruit. G. E. Woolhams, B.A., M.Sc., Assecrate Plant Pathologist diseases of vegetables. T. B. Lott, B.S.A., Assistant Plant Pathologist virus diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Vancouver, B.C. R. E. Fitzpatrick, B.S.A., Ph.D., Plant Pathologist diseases of fruit. N. S. Wright, B.S.A., M.S.A., Assistant Plant Pathologist diseases of fruit. H. N. W. Toms, B.A., James Plant Pathologist diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Pathologist plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of	
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fruit. LABORATORY OF PLANT PATHOLOGY, Vancouver, B.C. R. E. Fitzpatrick, B.S.A., Ph.D., Plant Pathologist diseases of fruit. N. S. Wright, B.S.A., M.S.A., Assistant Plant Pathologist diseases of potatoes. Miss F. C. Mellor, B.S.A., Assistant Plant Pathologist diseases of fruit. H. N. W. Toms, B.A., James Plant Pathologist diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Pathologist plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Pathologist diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist diseases of the second physiology.	
R. E. Fitrpatrick, B.S.A., Ph.D., Plant Publicings: diseases of fruit. N. S. Wright, B.S.A., M.S.A., Assistant Plant Parhelegist diseases of potatoes. Miss F. C. Mellor, B.S.A., Assistant Plant Parhelegist: diseases of fruit. H. N. W. Toms, B.A., Jamer Plant Parhelegist: diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Parhelegist: plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Parhologist: diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Parhologist: diseases of	
N. S. Wright, B.S.A., M.S.A., Assistant Plant Parhelogist diseases of potatoes. Miss F. C. Mellor, B.S.A., Assistant Plant Parhelogist i diseases of fruit. H. N. W. Toms, B.A., James Plant Pathelogist i diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Pathelogist i plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Pathelogist i diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathelogist i diseases of contents.	
Miss F. C. Mellor, B.S.A., Assistant Plant Parhologists diseases of fruit. H. N. W. Toms, B.A., James Plant Pathologists diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Pathologists plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Pathologists diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologists diseases of the pathologists.	
H. N. W. Toms, B.A., James Plant Particlegist: diseases of fruit. LABORATORY OF PLANT PATHOLOGY, Saanichton, B.C. W. Newton, B.S.A., M.S., Ph.D., Plant Particlegist: plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Parhologist: diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Parhologist: diseases of	()
 W. Newton, B.S.A., M.S., Ph.D., Plant Parhelegist plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Pathologist: diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist: diseases of content of the pathology of	,
 W. Newton, B.S.A., M.S., Ph.D., Plant Parhelegist plant pathology and physiology. W. Jones, B.Sc., M.S., Assistant Plant Pathologist: diseases of vegetables. R. J. Hastings, B.S.A., Assistant Plant Pathologist: diseases of content of the pathology of	
W. Jones, B.Sc., M.S., Assistant Plant Parbologist: diseases of vegetables, R. J. Hastings, B.S.A., Assistant Plant Parbologist: diseases of control of the	,
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bulbs.	
J. E. Bosher, Assistant Plant Purhologist: diseases of bulbs.	()
Field Laboratories of Forest Pathology	
LABORATORY OF FOREST PATHOLOGY, Fredericton, N.B. V. J. Nordin, B.A., B.Sc.F., Assistant Plant Pathologist , forest	
pathology.	
LABORATORY OF FOREST PATHOLOGY, Toronto, Ont.	
I E Rise R C. E M A Dia D. C. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr. Dr	
L. T. Waite, B.Sc.F., B.A., M.A., Assemble Photo Publicists forest pathology.	
LABORATORY OF FOREST PATHOLOGY, Saskatoon, Sask.	
Cal Billion Real and Date to the transfer of the control of the co	,
LABORATORY OF FOREST PATHOLOGY, Victoria, B.C.	
R. E. Foster, B.A., B.Sc.F., Associate Plant Planting statement pathology,	.`
P. J. Salisbury, B.S.A., Assessing Plant Parkings, 1998; pathology.	

G. P. Thomas, B.A., B.Sc., Assistant Plant Pathologist: forest pathology.	**************************************
R. A. Waldie, B.A., B.A.F., Assistant Pathologist: forest path	ology. 6
ivision of Chemistry	
J. C. Woodward, M.C. and bar., B.S.A., M.Sc., Ph.D., Chief of Division.	2, 5
C. J. Watson, B.S.A., M.Sc., Ph.D., Chemist in Charge: animal nutrition.	1.5
J. T. Janson, D.S.O. and bar, B.Sc., Chemist in Charge: food in vestigations.	24, 30
F. B. Johnston, B.A., M.A., Ph.D., Chemist: plant nutrition.	2, 5
R. B. Carson, B.A., B.Sc., M.Sc., Associate Chemist: analytical chemistry.	5, 24
Miss M. E. McKillican, B.Sc., M.S., Associate Chemist: organic chemistry.	5
W. E. Nichol, M.A.Sc., Assistant Chemist: micronutrients.	2, 5
R. Kasting, B.Sc., M.Sc., Assistant Chemist: pesticides.	5
G. S. Harper, B.S.A., Assistant Chemist: fruit and vegetable processing.	24, 30
L. E. Wright, B.Sc., Chemist in Charge: soils and fertilizers.	2
H. J. Atkinson, B.A., M.Sc., Ph.D., Chemist: soil research.	2
	2
G. R. Giles, B.Sc., Associate Chemist: micronutrients in soils.	2
R. F. Bishop, B.Sc., M.Sc., Associate Chemist: soil fertility.	
R. C. Turner, B.S.A., Assistant Chemist: soil physical chemistry.	2
F. J. Sowden, B.S.A., M.Sc., Ph.D., Assistant Chemist: soll organic matter.	2
H. M. Rice, B.A., Assistant Chemist: soil mineralogy.	2
A. R. G. Emslie, B.S.A., M.S.A., D.Sc., Chemist in Charge: animal physiology and vitamins.	13, 15, 25
C. E. Allen, B.A., Chemist: animal physiology.	13, 25
D. H. Laughland, B.S.A., M.Sc., Ph.D., Associate Chemist: fat soluble vitamins.	13, 15, 25
W. R. Settle, B.Sc., Assistant Chemist: histochemistry.	13, 25
BORATORY OF CHEMISTRY, Kentville, Nova Scotia.	
F. A. Herman, B.Sc., Chemist in Charge: pesticides.	5, 24
C. R. MacEachern, B.Sc., M.S., Assistant Chemist: soils.	
D. Chisholm, B.Sc., Assistant Chemist: pesticides.	5
BORSTORY OF CHEMISTRY, Summerland, British Columbia.	
G. G. Woodbridge, B.A., M.Sc., Ph.D., Associate Chemist: plant diseases.	2, 5
J. M. McArthur, B.A., M.A., PhD., Associate Chemist pessicides.	5
D. M. McLeod, B.S.A., Amendent Chemist: fruit and vegetable processing.	24, 30
BORATORY OF CHEMISIPY, Saanichton, British Columbia	
The state of the s	5

	Subject
Division of Entomology H. G. Crawford, B.S.A., M.S., Assistant Director, Science Service, Chief of Division.	19
FIELD CROP INSECT INVESTIGATIONS H. L. Seamans, B.Sc., M.Sc., Chief.	19
Forest Insect Investigations J. J. de Gryse, Ph.Cand.Lov., Chief.	19
FRUIT INSECT INVESTIGATIONS W. A. Ross, B.S.A., Chief.	19
Systematic Entomology.	
G. P. Holland, B.A., M.A., Chief.	19
Biological Control Investigations.	
A. B. Baird, B.S.A., M.S., Chief.	19
STORED PRODUCT INSECT INVESTIGATIONS.	
H. E. Gray, B.A., B.S.A., M.S., Ph.D., Chief.	19
Household and Medical Entomology.	
C. R. Twinn, B.S.A., M.Sc., Ph.D., Chief.	19
Entomological Laboratories, Ottawa, Ontario.	
Robt. Glen, B.Sc., M.Sc., Ph.D., Principal Entomologist, Research Assistant to Head of Division.	19
A. G. Dustan, B.Sc., M.Sc., Entomologist: vegetable insects.	19
A. D. Baker, B.S.A., M.Sc., Ph.D., Entomologist: nematodes.	21
W. G. Matthewman, B.S.A., M.Sc., Associate Entomologist: vegetable insects.	19
V. E. Henderson, B.A., Associate Entomologist: nematodes.	21
D. E. Gray, B.S.A., M.Sc., Entomologist, Executive Assistant: forest insects investigations.	19
K. E. Stewart, B.Sc., M.Sc., Associate Entomologist: reforestation and shade tree insects.	19
E. B. Watson, A.R.C.Sc., D.I.C., Associate Entomologist: forest insects.	19
Wm. Haliburton, B.Sc., M.S., Associate Entomologist: Dutch elm disease.	19
D. A. Quirke, B.Sc., M.Sc., Ph.D., Associate Entomologist: .birch	19
tree insects. D. A. Ross, B.S.A., M.S., Assistant Entomologist: forest insects.	
W. S. MacLeod, B.Sc., M.Sc., Associate Entomologist: insecticides.	10
W. J. Brown, A.B., M.Sc., Entomologist: coleoptera.	10
G. S. Walley, B.S.A., M.Sc., Entomologist: hymenoptera.	10
O. Peck, B.Sc., M.Sc., Ph.D., Entomologist: hymenoptera.	10
T. N. Freeman, B.S.A., M.Sc., Ph.D., Entomologist: lepidoptera.	10
G. E. Shewell, B.Sc., M.Sc., Entomologist: diptera,	10

D. F. Hardwick, B.A., M.Sc., Assistant Entomologist: lepidoptera. G. E. Bucher, B.A., M.A., Ph.D., Entomologist: insect pathology. J. W. Arnold, B.A., M.Sc., Assistant Entomologist: histology and toxicology.	Subject 19 19 19
J. H. Follwell, B.S.A., M.S.A., Assistant Entomologist: stored product insects.	19
 J. F. Sharp, B.A., Assistant Entomologist: biting fly studies. C. G. MacNay, B.A., Assistant Entomologist: household insects; Canadian insect pest review. 	19 19
Entomological Laboratory, Charlottetown, P.E.I. F. M. Cannon, B.Sc., M.Sc., Associate Entomologist: vegetable insects.	19
ENTOMOLOGICAL LABORATORY, Saint John's, Newfoundland. H. A. Butler, B.S.A., Associate Entomologist: field crop insects.	19
ENTOMOLOGICAL LABORATORY, Annapolis Royal, N.S.	
A. D. Pickett, B.S.A., M.Sc., Entomologist: fruit insects.	19
N. A. Patterson, B.S.A., Associate Entomologist: orchard insecticides.	19
H. A. Stultz, B.S.A., M.Sc., Associate Entomologist: bionomics of fruit insects.	19
F. T. Lord, B.S.A., Associate Entomologist: ecology.	19
A. W. MacPhee, B.S.A., M.Sc., Assistant Entomologist: ecology.	19
ENTOMOLOGICAL LABORATORY, Halifax, N.S.	
F. G. Cuming, B.Sc., Assistant Entomologist: forest insect survey.	19
ENTOMOLOGICAL LABORATORY, Fredericton, N.B.	
R. E. Balch, B.S.A., M.Sc., Ph.D., Senior Entomologist: forest insects.	19
W. A. Reeks, B.Sc., M.Sc., Entomologist: forest insect survey.	19
R. F. Morris, B.Sc., M.Sc., Ph.D., <i>Entomologist</i> : forest management in relation to insects.	19
L. J. Simpson, Assistant Entomologist: extension forest insects.	19
R. S. Forbes, B.Sc.F., M.Sc., Assistant Entomologist: forest insect survey.	19
Mrs. J. B. Adams, B.A., M.Sc., Associate Entomologist: potato aphid investigations.	19
D. D. Pond, B.Sc., Assistant Entomologist: field crop insects.	19
Mrs. M. E. MacGillivray, B.Sc., Junior Entomologist: potato aphids.	19
C. W. B. Maxwell, B.S.A., M.Sc., Associate Entomologist: fruit insects.	19
ENTOMOLOGICAL LABORATORY, Hemmingford, P.Q.	
C. E. Petch, B.S.A., Associate Entomologist: orchard insects.	19
NTOMOLOGICAL LABORATORY, Ste. Anne de la Pocatière.	
J. A. Duncan, B.Sc., M.Sc., Assistant Entomologist: vegetable	19

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Entomological Laboratory, Quebec, P.Q.	4 (
L. J. Briand, B.S.A., Assistant Entomologist: biological control.	19
G. R. F. Davis, B.Sc., M.Sc., Junior Entomologist: forest insects,	19
biological control of	
Entomological Laboratory, St. Jean, P.Q.	
A. A. Beaulieu, B.S.A., B.Sc.: fruit insects.	19
J. B. Maltais, B.S.A., M.Sc., Associate Entomologist: insect nutri-	19
tion.	
J. P. Perron, B.S.A., Junior Entomologist: vegetable insects.	19
Entomological Laboratory, Belleville, Ont.	
A. Wilkes, B.S.A., M.S.A., Ph.D., Senior Entomologist: biological	19
control.	
R. W. Smith, B.S.A., <i>Entomologist</i> : grasshoppers, wheat stem	19
sawfly.	
G. Wishart, B.S.A., M.Sc., Entomologist: field crop insect	19
parasites.	
T. Burnett, B.S.A., Ph.D., Associate Entomologist: population	19
ecology.	
H. L. House, B.S.A., Ph.D., Associate Entomologist: insect nutrition.	19
H. G. James, B.A., M.A., Associate Entomologist: biting fly para-	19
sites; reference collections.	
D. P. Pielou, B.Sc., Ph.D., Associate Entomologist: parasites of	19
fruit insects.	1
W. F. Baldwin, B.S.A., M.A., Assistant Entomologist: spruce and	19
pine sawflies.	3.7
H. C. Coppel, B.S.A., M.Sc., Ph.D., Assistant Entomologist: forest	19
insect parasties.	* * * * * * * * * * * * * * * * * * * *
L. G. Monteith, B.S.A., M.S.A., Ph.D., Assistant Entomologist:	19
host parasites conditioning.	17
L. R. Finlayson, B.S.A., Assistant Entomologist: spruce and pine	19
sawflies.	1./
A. R. Graham, B.S.A., M.Sc., Assistant Entomologist: larch insects.	19
M. J. Dever, B.A., M.A., Junior Entomologist: genetics.	19
T. U. Finlayson, B.A., Junior Entomologist: grasshopper parasites.	19
grassiopper parasites.	1.59
ENTOMOLOGICAL LABORATORY, Vineland Station, Ont.	
G. G. Dustan, B.S.A., M.Sc., Entomologist: fruit insects; insec-	19
ticides.	
T. Armstrong, B.S.A., M.Sc., Associate Entomologist: stone fruit	19
and pear insects.	
W. P. G. Garlick, B.S.A., M.Sc., Associate Entomologist: codling	10
moth.	1
W. L. Putman, B.S.A., M.S.A., Associate Entomologist: ecology.	10
J. H. H. Phillips, B.S.A., M.S., Assistant Entomologist insect	10
vectors of stone fruit virus diseases.	15
J. A. Hall, B.S.A., Associate Entomologist: Sub-Laboratory	10
Sincoe, Ontario; apple insects.	
H. R. Boyce, B.S.A., M.S.A., Associate Entomologist, Sub	10
Laboratory Harrow Ontario: peach insurface	1.3

ENTOMOLOGICAL LABORATORY, Chatham, Ontario.	Subject
G. F. Manson, B.Sc., M.Sc., Entomologist: field crop insects.	10
J. E. Armand, B.S.A., Assistant Entomologist: vegetable insects.	19
D. A. Arnott, B.Sc., Assistant Entomologist: vegetable fisects.	19
H. B. Wressell, B.S.A., Assistant Entomologist: European corn	19
borer.	19
G. E. Coppel, B.S.A., M.S., Junior Entomologist: wireworms.	19
C. J. S. Fox, B.S.A., Junior Entomologist: tobacco insects.	19
A. A. Wood, Assistant Entomologist: exhibition materials.	19
Entomological Laboratory, Marmora, Ont.	
G. H. Hammond, B.S.A., M.Sc., Associate Entomologist: white grubs.	19
Entomological Laboratory, Sault Ste. Marie, Ont.	
M. L. Prebble, B.Sc., M.Sc., Ph.D., Principal Entomologist: forest	19
insects.	19
J. McB. Cameron, B.S.A., M.Sc., Ph.D., Entomologist: physical ecology.	19
W. G. Wellington, B.A., M.A., Ph.D., <i>Entomologist</i> : meteorology.	19
G. H. Bergold, Ph.D., Entomologist: insect pathology.	19
S. G. Smith, B.Sc., M.Sc., Ph.D., Entomologist: genetics.	19
C. R. Douglas, B.Sc., M.Sc., Associate Entomologist: forest insect	19
survey. F. T. Bird, B.S.A., Associate Entomologist: insect pathology.	19
Donald A. Fraser, B.A., B.Sc., Associate Entomologist: ecology.	19
J. R. Blais, B.Sc.F., Assistant Entomologist: forest entomology.	19
R. M. Belyea, B.A., Assistant Entomologist: forest entomology.	19
J. J. Fettes, B.Sc.F., Assistant Entomologist: forest entomology.	19
R. J. Heron, M.Sc., Assistant Entomologist: insect physiology.	19
B. M. McGugan, B.Sc., M.Sc., Assistant Entomologist: forest insect	19
survey.	
Miss S. S. Morton, B.A., M.A., Assistant Entomologist: histology.	19
ENTOMOLOGICAL LABORATORY, Winnipeg, Man.	
R. R. Lejeune, B.S.A., M.Sc., Associate Entomologist: forest in-	19
sects.	
B. N. Smallman, B.A., M.A., Ph.D., Associate Entomologist:	19
stored product insects.	10
F. L. Watters, B.Sc., Assistant Entomologist: stored product insects.	19
Parameter Dunden Man	
R. D. Bird, B.Sc., M.Sc., Ph.D., Associate Entomologist: field crop	19
insects.	
W. R. Allen, B.S.A., M.Sc., Associate Entomologist: toxicology,	19
physiology. D. S. Smith, B.Sc., M.Sc., Assistant Entomologist: grasshopper	19
nutrition.	
Miss F. E. Northcott, B.A., Junior Entomologist: grasshopper	19
nutrition.	

survey.

	Subject
Entomological Laboratory, Indian Head, Sask.	10
L. O. T. Peterson, B.Sc., M.Sc., Associate Entomologist: forest in-	19
sects; shelter belt insects.	19
G. A. Bradley, B.S.A., M.Sc., Assistant Entomologist: forest insect	19
survey.	19
Miss M. E. Cumming, B.A., Junior Entomologist: forest insect	19
survey.	
Entomological Laboratory, Saskatoon, Saskatchewan.	10
A. P. Arnason, B.Sc., M.Sc., Ph.D., Entomologist: field crop insects.	19
H. McDonald, B.S.A., M.Sc., Ph.D., Entomologist: cutworms.	19
H. W. Moore, B.Sc., M.Sc., Associate Entomologist: grasshoppers.	19
H. A. McMahon, B.S.A., M.Sc., Associate Entomologist: forage	19
crop insects.	40
W. B. Fox, B.Sc., Junior Entomologist: wireworms.	19
P. W. Riegert, B.A., Junior Entomologist: grasshoppers.	19
A. R. Brooks, B.A., M.Sc., Associate Entomologist: systematic	19
diptera.	10
R. A. Fuller, B.A., B.S.A., Junior Entomologist: radio active	19
tracer experiments.	19
W. W. A. Stewart, B.Sc., <i>Junior Entomologist</i> : grasshoppers and wireworms.	19
F. J. H. Fredeen, B.S.A., Junior Entomologist: household and	19
medical entomology.	19
medical circomology.	
Tamourous Carona I aponamona I athlacidae Albanta	
ENTOMOLOGICAL LABORATORY, Lethbridge, Alberta.	10
C. W. Farstad, B.Sc., M.Sc., Ph.D., Entomologist: field crops.	19 19
R. W. Salt, B.Sc., M.Sc., Ph.D., Entomologist: ecological biology. H. Hurtig, B.Sc., Ph.D., Associate Entomologist: toxicology.	19
L. A. Jacobson, B.Sc., M.Sc.: Associate Entomologist: say stink	19
bug and cutworms.	19
L. G. Putnam, B.S.A., M.Sc., Associate Entomologist: grasshoppers	19
G. A. Hobbs, B.S.A., M.Sc., Associate Entomologist: forage crop	19
insects.	19
P. E. Blakely, B.S.A., Assistant Entomologist: cutworms.	19
G. E. Swailes, B.S.A., Junior Entomologist: vegetable insects.	19
N. D. Holmes, B.Sc., M.Sc., Junior Entomologist: wheat stem	19
sawfly.	
A. J. McGinnis, B.Sc., Junior Entomologist: wheat stem sawfly.	19
Miss M. R. MacKay, B.Sc., Junior Entomologist: wheat stem	19
sawfly.	
R. H. Painter, B.S.A., M.Sc., Entomologist: livestock insects.	19
J. J. R. McLintock, B.Sc., Associate Entomologist: livestock insects.	19
W. A. Nelson, B.Sc., M.Sc., Assistant Entomologist: livestock	19
insects.	
ENTOMOLOGICAL LABORATORY, Calgary, Alberta.	
G. R. Hopping, B.Sc., M.Sc., Entomologist: forest insects.	10
W. C. McGuffin, B.A., M.A., Associate Entomologist: forest insect	10

	CANADA
	Subject
ENTOMOLOGICAL LABORATORY, Vernon, B.C.	10
W. G. Mathers, B.S.A., M.S., Associate Entomologist: forest insects. D. K. Campbell, B.S.A., Junior Entomologist: forest insect survey.	19 19
ENTOMOLOGICAL LABORATORY, Vancouver, B.C.	
J. H. MacLeod, B.Sc., M.Sc., Associate Entomologist: biological control.	19.
ENTOMOLOGICAL LABORATORY, Summerland, B.C.	
 J. Marshall, B.S.A., M.Sc., Ph.D., Entomologist: fruit insects. C. V. G. Morgan, B.S.A., M.Sc., Assistant Entomologist: orchard mites. 	19 19
M. D. Proverbs, B.Sc., M.Sc., Assistant Entomologist: stone fruit insects.	19
D. B. Waddell, B.A., M.A., Ph.D., Assistant Entomologist: insect vectors of virus diseases.	19
ENTOMOLOGICAL LABORATORIES, Kamloops, B.C.	
J. D. Gregson, B.A., M.Sc., Entomologist: livestock insects; ticks.	19
R. D. Handford, B.S.A., M.Sc., Ph.D., Entomologist: field crop insects.	19
T. K. Bourns, B.A., M.A., Assistant Entomologist: warble fly.	19
C. L. Neilson, B.Sc., M.Sc., Assistant Entomologist: vegetable in-	19
sects. L. C. Curtis, B.A., M.Sc., Assistant Entomologist: household and	19
medical entomology.	-
ENTOMOLOGICAL LABORATORY, Agassiz, B.C.	
R. Glendenning, Assistant Entomologist: field crop insects.	19
H. G. Fulton, B.S.A., Junior Entomologist: carrot rust fly; pea moth.	19
ENTOMOLOGICAL LABORATORIES, Victoria, B.C.	
H. Andison, B.S.A., Associate Entomologist: fruit insects.	19 19
H. Richmond, B.Sc., M.Sc., Entomologist: forest insects. K. M. King, B.Sc., M.Sc., Ph.D., Entomologist: field crop insects;	19
wireworms.	
Division of Plant Protection	
W. N. Keenan, Chief of Division: plant inspection and seed potato certification.	1
H. A. U. Monro, B.S.A., M.Sc., Senior Research Worker: fumigation	19
research. J. E. King, B.S.A., Junior Research Worker: fumigation research.	19
EXPERIMENTAL FARMS	
Administration Division	1
E. S. Archibald, C.B.E., B.A., B.S.A., D.Sc., F.R.S.C., Merite	1
Agricole, Director. E. S. Hopkins, B.S.A., M.S., Ph.D., Associate Director.	1

R. R. McKibbin, B.S.A., Ph.D., Experimental Projects.	Subject
W. Dickson, B.A., Research Specialist.	
F. W. Graves, M.R.A.I.C., : farm architecture.	
H. H. Merrill, M.R.A.I.C.: farm architecture.	
J. G. Laskie, A.R.I.B.A.: farm architecture.	
Division of Animal Husbandry	
G. W. Muir, B.S.A., Chief.	1, 18
E. B. Fraser, B.S.A., M.S., Assistant: swine.	18
P. E. Sylvestre, B.A., B.S.A., M.S., Assistant: beef cattle.	18
C. D. MacKenzie, B.S.A., M.S.A., Ph.D., Assistant: dairy cattle.	18
S. B. Williams, B.S.A., M.Sc., Assistant: sheep.	18
V. S. Logan, B.S.A., M.Sc., Assistant: horses.	18
C. A. Gibson, B.S.A., Assistant: dairy manufacture.	17
Division of Horticulture	
M. B. Davis, B.S.A., M.Sc., Chief.	1
H. Hill, B.S.A., M.Sc., Ph.D., Senior Officer: plant nutrition.	2
D. S. Blair, B.S.A., M.Sc., Senior Officer, pomology, and Officer-in- Charge, Smithfield Sub-Station.	9
W. Ferguson, B.S.A., M.Sc., Senior Officer: vegetables.	9
A. W. S. Hunter, B.S.A., M.Sc., Ph.D., Senior Officer: genetics and cytology.	4
W. R. Phillips, B.S.A., M.S.A., Senior Officer: low temperature research.	30
R. W. Oliver, B.S.A., Senior Officer: ornamental horticulture.	9
F. S. Browne, B.S.A., Senior Officer, co-operative experiments, and	9
Officer-in-Charge, Ste. Clothilde Sub-Station.	
H. B. Cannon, B.S.A., Ph.D., Senior Officer: statistics.	29
Mary MacArthur, B.Sc., A.M., Ph.D., Senior Officer: histology	3
and morphology.	
A. P. Chan, B.S.A., M.Sc., Ph.D., Senior Officer: floriculture.	9
N. M. Parks, B.S.A., Senior Officer: potato investigations.	9
E. L. Eaton, B.SA., Senior Assistant: native fruits.	9
L. H. Lyall, B.S.A., M.S., Senior Assistant: vegetable breeding.	4
J. J. Jasmin, B.Sc. (Agr.), Assistant: vegetable breeding.	4
D. F. Cameron, B.S.A., Assistant: ornamental plant breeding.	4
P. A. Poapst, B.Sc., B.Sc. (Agr.), Assistant: low temperature	30
research.	
L. P. Spangelo, B.S.A., M.S.A., Assistant: fruit breeding.	4
H. B. Heeney, B.S.A., Assistant: plant nutrition.	2
S. H. Nelson, B.S.A., Assistant: pomology.	9
N. R. Thompson, B.S.A., Assistant: potato investigations. R. W. Birch, B.S.A., Assistant.	9
D. W. Evans, B.S.A., Assistant.	4
J. E. McKillop, B.S.A., Assistant.	4
R. H. Hikida, B.S.A., M.Sc., Assistant.	4
I. D. W. Smith, B.S.A., Assistant.	4
I. B. Tier BSA MSA Assistant	4

	Subject
Division of Field Husbandry, Soils and Agricultural Engineering	
P. O. Ripley, B.S.A., M.S., Ph.D., Chief.	1
A. J. Maclean, B.Sc., M.Sc., : soil fertility.	2
W. E. Cordukes, B.Sc., M.Sc.: soil fertility.	2
S. M. Donaldson, B.S.A.: pastures.	8
G. Knowles, B.S.A.: weeds.	12
N. Gordon, B.S.A.: projects.	29
J. M. Armstrong. B.S.A.: agricultural engineering.	28
W. Kalbfleisch, B.E. (C.), B.E. (M), B.E. (A.), M.Sc.: agricultural	28
engineering.	
D. J. Cooper, B.Sc.: agricultural engineering.	28
A. J. Magee, B.Sc.: agricultural engineering.	28
J. W. White, B.S.A.: agricultural engineering.	28
A. Leahey, B.Sc., M.Sc., Ph.D.: soil survey.	2
P. C. Stobbe, B.S.A., M.Sc.: soil survey.	2
SOIL SURVEYORS LOCATED IN PROVINCES.	
G. B. Whiteside, B.S.A., Experimental Station, Charlottetown,	2
Prince Edward Island.	
D. B. Cann, B.Sc., M.Sc., Agricultural College, Truro, Nova Scotia.	2
R. E. Wicklund, B.S.A., M.Sc., University of New Brunswick,	2
Fredericton, New Brunswick.	
K. K. Langmaid, B.Sc., University of New Brunswick, Fredericton,	2
New Brunswick.	
J. L. P. Lajoie, B.A., B.Sc., M.Sc. J. F. G. Millette, B.Sc., M.Sc. Macdonald College, Quebec.	2
J. F. G. Millette, B.Sc., M.Sc.	2
R. W. Baril, B.S.A., M.Sc. College of Agriculture, Ste. Anne	2
B. Rochefort, B.A., B.S.A. de la Pocatiere, Quebec.	2
N R Richards BSA MSc)	2
I. F. Gillespie B.S.A. Contano Agriculturar Conlege,	2
D. W. Hoffman, B.S.A., M.Sc. Guelph, Ontario.	2
W. A. Ehrlich, B.S.A., M.Sc. \ University of Manitoba, Winnipeg,	2
L. E. Pratt, B.S.A. Manitoba.	2
H. C. Moss, B.S.A., M.Sc.	2
J. S. Clayton, B.Sc., M.Sc. \University of Saskatchewan,	2
W. K. Jansen, B.S.A., M.Sc. Saskatoon, Sask.	2
O. P. Bristol, B.S.A.	2
W. E. Bowser, B.Sc., M.Sc.	2
F. W. Peters, B.Sc., M.Sc. University of Alberta,	2
F. W. Schroer, B.S.A., M.Sc. Edmonton, Alta.	2
J. N. Leat, B.Sc.	2
L. Farstad, B.S.A., M.Sc. University of British Columbia,	2
1 D Laucott K A M C	2
T. M. Lord, B.S.A. Vancouver, B.C.	2
arcal Division	
C. H. Goulden, B.S.A., M.S.A., Ph.D., Chief.	1
J. G. C. Fraser, B.S.A., Chief Assistant: spring wheat.	4
P. R. Cowan, B.S.A., Senior Cerealist: barley and peas.	4
A. G. O. Whiteside, B.S.A., M.S., Senior Cerealist: wheat quality	4
and winter wheat.	

	Subject
R. A. Derick, B.S.A., M.Sc., Senior Cerealist: oats.	4
W. G. McGregor, B.S.A., M.S., Ph.D., Senior Cerealist: flax, beans and buckwheat.	4
D. G. Hamilton, B.S.A., M.S., Ph.D., Senior Cerealist: oats and barley.	4
F. Gfeller, B.S.A., M.Sc., Cerealist: spring wheat.	4
J. Edgar, B.S.A., Cerealist: wheat quality and winter wheat.	4
H. Miller, Assistant: wheat quality.	4
D. R. Hansen, B.Sc., Junior Cerealist: flax.	4
Division of Forage Plants	1 0
T. M. Stevenson, B.S.A., M.Sc., Ph.D., Chief.	4, 8
F. Dimmock, B.S.A., M.S.A., Ph.D.: corn, soybeans and sugar bee J. M. Armstrong, B.S.A., M.S.A., Ph.D.: cytology, introductions.	ts 4, 8
R. M. MacVicar, B.S.A., M.Sc.: grasses, seed production.	4, 8
F. S. Nowosad, B.S.A., M.Sc.: pastures, field roots and statistics.	8, 29
J. H. Boyce, B.S.A., M.Sc.: turf research.	8
H. A. McLennan, B.S.A., M.Sc.: alfalfa, clovers.	4, 8
W. R. Childers, B.S.A., M.Sc.: grasses.	4,8
Division of Illustration Stations	
J. C. Moynan, B.S.A., Chief Supervisor of Illustration Stations. 1	, 2, 12, 17
A. E. Barrett, B.S.A., M.Sc., Associate Chief Supervisor of Illustra-	2, 12, 17
tration Stations.	2 20
R. R. Cairns, B.S.A., Supervisor of Illustration Stations.	2, 29
L. Bellefleur, B.A., B.S.A., Supervisor of Illustration Stations. L. M. Casserly, B.A., B.S.A., Supervisor of Illustration Stations.	2, 12, 17 2, 12, 17
(Note: Supervisors of Illustration Stations located in the various province under the Branch Farms and Stations at which they have their headquar	s are listed ters).
Bee Division	
C. A. Jamieson, B.S.A., Chief.	1 12 10
J. H. Arnott, B.S.A., Assistant: apiculture.	1, 13, 19
J. 11. 11110ct, D.S.M., 21881811111 . apicurture.	19
Division of Economic Fibre Production	
R. J. Hutchinson, Chief.	2
L. A. Cabana, B.S.A., L.S.A., Assistant: fibre.	2
E. M. MacKey, B.S.A., Officer-in-Charge: Pilot Flax Mill, Portage la Prairie, Man.	2
W. O. Chubb, B.Sc., D.Sc., Chemist: Pilot Flax Mill, Portage la	5
Prairie, Man.	
Poultry Division	
H. S. Gutteridge, B.S.A., M.Sc., Chief.	1
A. S. Johnson, B.Sc., M.Sc.: poultry geneticist.	.14
M. Novikoff, B.S.A., M.Sc.: poultry nutritionist.	15
R. S. Gowe, B.S.A., M.S., Ph.D.: poultry geneticist and physiologist.	1+
S. Bird; poultry nutritionist.	
pourty nutritionist.	15

	CANADA
Tobacco Division	Subject
N. A. MacRae, B.A., M.Sc., Ph.D., Chief.	
E. T. McEvoy, B.Sc., M.Sc., : nutrition.	1
L. E. Gilmore, B.S.A., M.A.: agronomy.	2
G. M. Ward, B.Sc., M.A.: plant physiology.	2, 25
F. H. White, B.Sc., M.Sc.: genetics.	3, 5, 25
BRANCH FARMS AND STATIONS	
Prince Edward Island	
EXPERIMENTAL STATION, Charlottetown.	
R. C. Parent, B.S.A., M.S.A., Superintendent.	1
B. F. Tinney, B.S.A., M.S.A., Assistant in Poultry.	14, 15, 17
D. C. Schurman, B.S.A., M.S.A., Assistant in Agronomy.	2, 7, 8
G. C. Warren, B.S.A., Assistant in Horticulture.	9
W. N. Black, B.S.A., Supervisor of Illustration Stations.	2, 7, 8
Graeme Boswall, B.Sc., M.Sc., Soil Specialist.	2
EXPERIMENTAL FOX RANCH, Summerside.	
C. K. Gunn, B.Sc., M.Sc., Ph.D., Superintendent.	.1
L. M. Bezeau, B.S.A., M.Sc., Assistant.	15
Nova Scotia	
EXPERIMENTAL STATION, Kentville, N.S.	
A. Kelsall, B.S.A., Superintendent.	1
R. D. L. Bligh, B.S.A., Assistant: horticulture.	9
C. J. Bishop, A.M., Ph.D., Geneticist.	4, 9
E. W. Chipman, B.Sc. (Agr.), Vegetable Specialist.	9
D. L. Craig, B.Sc. (Agr.), Small Fruits Specialist.	9
G. W. Hope, B.Sc. (Agr.), M.A., Processed Products Specialist.	9, 30
J. S. Leefe, B.S.A., Field Crops Specialist.	2, 12
R. P. Longley, M.S.A., Tree Fruits Specialist.	9
C. A. Eaves, B.S.A., M.Sc., Storage Specialist.	2, 9, 30
F. B. Kinsman, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
Experimental Farm, Nappan.	
W. W. Baird, B.S.A., Superintendent.	1
C. D. T. Cameron, B.S.A., M.Sc., Assistant, Animal Husbandry.	18
E. T. Goring, B.S.A., Assistant in Field Husbandry.	2, 8
J. D. E. Sterling, B.S.A., M.Sc., Assistant in Cereals and Forage Crops.	4
Thomas MacIntyre, B.Sc. (Agr.), M.Sc., Assistant in Poultry Nutritio	n. 15
Lloyd P. Jackson, B.Sc. (Agr.), Assistant in Field Husbandry.	2, 8
M. H. Jenkins, B.S.A., Assistant in Poultry Husbandry.	14
F. Calder, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
New Brunswick	
Experimental Station, Fredericton.	
S. A. Hilton, B.S.A., M.Sc. (Agr.), Superintendent.	1
J. M. F. MacKenzie, B.S.A., Senior Cerealist and Agrostologist.	8, 12

	Subject
L. C. Young, B.A., B.S.A., M.S., Senior Horticulturist. R. G. White, B.S.A., Horticulturist (Fruits and Vegetables).	4, 9 4, 9
W. B. Collins, B.Sc. (Agr.), Horticulturist (Small Fruits). H. T. Davies, B.S.A., Potato Breeder.	4
Leonard Griesbach, B.S.A., M.Sc., Poultry Husbandman.	14
Richard Levick, B.S.A., Animal Husbandman.	14,18
T. C. Chiasson, B.Sc. (Agr.), Field Husbandman.	2, 12
A. A. MacLean, B.Sc. (Agr.), M.Sc., Soil Specialist.	2 12 17
W. A. Burgess, B.S.A., Supervisor of Illustration Stations. E. A. Grant, B.S.A., Supervisor of Illustration Stations.	2, 12, 17 2, 12, 17
Quebec Quebec	
Experimental Station, Ste. Anne de la Pocatiere.	
J. R. Pelletier, B.S.A., M.A., M.Sc., Superintendent.	1, 8
J. E. Godbout, B.A., B.S.A., Assistant: agronomy.	2 9
B. Forest, B.A., B.S.A., M.Sc., Assistant: horticulture. F. M. Gauthier, B.S.A., M.Sc., Assistant: agronomy.	8
L. Dessureaux, B.A., B.S.A., M.S., Ph.D., Assistant: agronomy.	4
R. Caron, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
EXPERIMENTAL SUB-STATION, Caplan.	1 0
G. Provencher, B.A., B.S.A., Officer-in-Charge.	1, 9
Experimental Station, Lennoxville.	1
J. A. Ste. Marie, B.S.A., Superintendent. Paul Gervais, B.S.A., M.Sc., Assistant: cereals and forage crops.	4, 7, 8
W. S. Richardson, B.S.A., Assistant: field husbandry.	2, 7, 8
E. A. Ouellette, B.S.A., Assistant: forage crops.	3, 7, 8
G. Lalande, B.S.A., Assistant: animal husbandry.	14, 17, 18
B. J. Finn, B.S.A., M.Sc., Assistant: soil fertility.	2
O. Allard, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
Experimental Station, L'Assomption.	
R. Bordeleau, B.S.A., Superintendent.	1
C. E. Ste. Marie, B.S.A., Assistant: horticulture.	9
J. Richard, B.A., B.S.A., M.Sc., Tobacco Specialist. F. Coiteux, B.S.A., Assistant: field husbandry.	2, 12
J. A. Belanger, B.S.A., B.Ch., Assistant: soils and fertilizers.	12, 17
Experimental Station, Normandin.	
J. A. Belzile, B.S.A., Superintendent.	1, 17
J. E. Laplante, B.S.A., M.S., Assistant: plant husbandry.	12
L. C. Larose, B.A., B.S.A., Assistant: fodder plants.	8
G. E. Ouellet, B.A., B.S.A., Assistant: horticulture. G. H. Harvey, B.A., B.S.A., Supervisor of Illustration Stations.	2, 12, 17
Ontario	
Experimental Station, Kapuskasing.	
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L. A. Charette, B.S.A., Assistant: animal husbandry; apiculture and poultry.	18
F. X. Gosselin, B.S.A., Supervisor of Illustration Stations.	2, 12, 17

Experimental Station, Harrow.	Subject
H. F. Murwin, B.S.A., Superintendent.	4
R. J. Haslam, B.S.A., Tobacco Specialist.	1
G. F. H. Buckley, B.S.A., M.S., Ph.D., Corn Specialist.	4
J. M. Fulton, B.S.A., Soil Specialist.	4
T. B. Harrison, B.S.A., M.Sc., Fruit Specialist.	2 9
B. S. Hoegstedt, Assistant Animal Husbandry and Cereals.	
C. G. Mortimore, B.S.A., M.S., Assistant: corn breeding.	4, 18
L. F. Ounsworth, B.Sc., M.Sc., Vegetable Specialist.	4
C. W. Owen, B.S.A., Soybean Specialist.	4
W. A. Scott, B.S.A., Assistant: tobacco.	2
	4
Experimental Sub-Station, Delhi.	
L. S. Vickery, B.S.A., M.Sc., Officer-in-Charge.	1
R. B. Rudd, B.S.A., M.Sc., Soil Specialist.	2
A. R. Rusnell, B.S.A., Assistant: tobacco.	2
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Experimental Sub-Station, Woodslee,	
J. W. Aylesworth, B.S.A., M.S., Officer in Charge.	2
DISTRICT EXPERIMENT SUB-STATION, Mindemoya.	
C. B. Dalton, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
DISTRICT EXPERIMENTAL SUB-STATION, Fort William, Ont.	
J. K. Knights, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
Manitoba	
LABORATORY OF CEREAL BREEDING, Winnipeg.	
R. F. Peterson, B.S.A., M.S., Ph.D.: cereal breeding.	1, 4
J. N. Welsh, B.S.A., M.S., Assistant: oat breeding.	4
A. B. Campbell, B.S.A., M.Sc., Assistant: wheat breeding.	4
A. B. Masson, B.S.A., M.Sc., Assistant: durum wheat breeding,	4
processing seed of cereals.	
A. E. Hannah, B.S.A., Assistant: flax breeding.	4
J. E. Andrews, B.S.A., Assistant: barley breeding.	4
Experimental Station, Morden.	
W. R. Leslie, B.S.A., Superintendent.	1, 2, 4, 9
W. J. Breakey, B.S.A., Assistant: animal and field husbandry.	2, 17
Chas. Walkof, B.S.A., M.Sc., Assistant.	4, 9
C. R. Ure, B.Sc., M.Sc., Assistant.	4, 9
A. L. Shewfelt, B.S.A., M.Sc., Assistant.	5, 9
W. A. Russell, B.S.A., M.S., Assistant.	4, 8
B. R. Wilkinson, B.S.A., M.S.A., Assistant.	2, 3, 9
Experimental Farm, Brandon.	1
R. M. Hopper, B.S.A., M.Sc., Superintendent.	1 12
D. A. Brown, B.S.A., Assistant: field husbandry.	4
W. H. Johnston, B.A., M.Sc., Assistant (Cereals): plant breeding.	9
E. Braun, B.S.A., M.Sc., Assistant: apiculture.	

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F. Graves, B.S.A., Technical Officer Animal Husbandry and Poultry.	13
B. J. Gorby, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
D. A. Duncan, B.S.A., Supervisor of District Experiment Sub-	
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RECLAMATION STATION, Melita.	
F. S. Gugin, B.S.A., Assistant.	2
Saskatchewan	
Forage Crops Laboratory, Saskatoon.	4 4 0
W. J. White, B.S.A., M.Sc., Ph.D., Officer-in-Charge.	1, 4, 8
J. L. Bolton, B.Sc., M.Sc., Ph.D.: alfalfa investigations.	4, 8
R. P. Knowles, B.S.A., M.Sc.: grass investigations.	4, 8
Forest Nursery Station, Indian Head.	4 40
John Walker, B.Sc., M.S., Superintendent.	1, 10
W. H. Cram, B.S.A., M.Sc., Plant Breeder.	4, 10 3, 10,
J. Wilner, B.S.A., M.S., Plant Physiologist.	3, 10,4
Forest Nursery Station, Sutherland.	-
W. L. Kerr, B.S.A., M.Sc., Superintendent.	1, 9, 10
Experimental Farm, Indian Head.	
J. G. Davidson, B.A., B.S.A., M.S.A., Officer-in-Charge: agro-	1, 2, 4, 8, 12
nomy.	
W. W. Cram, B.S.A., Assistant: animal husbandry.	14, 15, 17
E. V. McCurdy, B.S.A., Assistant: field husbandry.	2, 12
E. Buglass, B.S.A., Assistant: agronomy.	2, 4, 8, 12
R. N. McIver, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
Experimental Sub-Station, Regina.	
J. Roe Foster, B.S.A., Superintendent.	1, 7, 12
E. S. Molberg, B.Sc.	7, 12
Experimental Station, Melfort.	
H. E. Wilson, B.S.A., Superintendent.	1, 18
R. H. Anderson, B.S.A., Assistant: horticulture.	.) [
H. R. Ballantyne, B.S.A., Assistant: field crops.	4, 8
B. K. McDonald, B.S.A., Assistant: field husbandry.	2, 12
K. E. Bowren, B.S.A., Supervisor of Illustration Stations. A. R. Mack, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
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EXPERIMENTAL STATION, Scott.	
G. D. Matthews, B.S.A., Superintendent. E. Van Nice, B.S.A., Assistant: animal husbandry.	1
A. G. Kusch, B.S.P., B.Sc., B.S.A., M.Sc., Cerealist.	18
H. A. Friesen, B.S.A., M.Sc.: field husbandry.	12
E. F. Maas, B.S.A., M.S, Soil Specialist.	12
C. H. Keys, B.S.A., Supervisor of Illustration Stations.	2, 12, 17
W. R. Towill, B.S.A., Supervisor of Illustration Stations.	2, 12,17

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R. E. McKenzie, B.Sc., M.Sc., Assistant: agrostologist.	4
D. H. Heinrichs, B.S.A., M.Sc., Assistant: plant breeding (forage).	4
P. J. Janzen, B.S.A., Assistant: field husbandry.	12
J. P. Ficht, B.Sc., M.Sc., Assistant: field husbandry.	2
J. L. Thompson, B.E., M.E., Assistant: agricultural engineering.	28
H. D. Ayers, B.Sc., Assistant: agricultural engineering.	28
A. Wenhardt, B.S.A., Assistant: agricultural engineering.	28
M. E. Dodds, O.B.E., B.E., Assistant: agricultural engineering.	28
H. C. Korven, B.Sc., Assistant: agricultural engineering.	28
G. B. Harrison, B.S.A., Assistant: agricultural engineering.	28
J. G. Kemp, B.E., Assistant: agricultural engineering.	28
R. M. Blakely, B.S.A., Assistant: turkey nutrition.	15
H. I. MacGregor, B.Sc., M.Sc., Assistant: turkey nutrition.	15
D. S. McBean, B.S.A., M.Sc., Assistant: cereals.	4
L. J. Anderson, B.S.A., Assistant: agrostologist.	8
M. R. Kilcher, B.S.A., Assistant: agrostologist.	8
R. W. Lodge, B.S.A., Assistant: agrostologist.	8
B. E. Murray, B.S.A., M.Sc., Assistant: agrostologist.	8
P. J. Myhr, B.S.A., Assistant: animal husbandry.	18
J. S. Parker, B.Sc., Assistant: agricultural engineering.	28
Corre Branchay Language County Comment	
Soils Research Laboratory, Swift Current.	1, 2
J. L. Doughty, B.S.A., M.Sc., Ph.D., Officer-in-Charge.	26
W. J. Staple, B.Sc., M.Sc.: soil physics.	26
J. J. Lehane, B.Sc., M.S.A.: soil physics.	12
F. Bisal, B.A., M.Sc.: soil physics.	2
F. G. Warder, B.S.A., : soil chemistry.	2
W. C. Hinman, M.Sc.: soil chemistry.	4
Alberta	
EXPERIMENTAL STATION, Lethbridge. A. E. Palmer, B.Sc., M.Sc., Superintendent.	1
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H. Chester, B.S.A., Head of the Field Husbandry Section.	12
Miss M. J. Fredeen, B.S.A.: alfalfa studies.	4
W. D. Hay, B.S.A., Agronomist.	12
H. J. Hargrave, B.Sc., Co-ordinator Range Research.	17
K. W. Hill, B.Sc., M.Sc., Agronomist.	2
W. L. Jacobson, C.M., B.S.A., Head, Irrigation Investigation.	2
D. C. Jacobson, C.M., D.S.M., Head, Trigution Income	4
B. C. Jenkins, B.Sc., M.Sc., Cereal Breeder.	8
A. Johnston, B.S.A.: range research. W. N. MacNaughton, B.Sc., M.Sc., Animal Breeder.	14
L. E. Meldrum, B.Sc., M.Sc., Animal Husbandman.	17
A. D. McFoddon, R.S.A. Invigation Engineer	28
A. R. McFadden, B.S.A., Irrigation Engineer. I. L. Nonnecke, B.Sc., Head, Horticulture Section.	9
R. W. Peake, B.Sc., M.Sc., Head, Forage Crop Section.	8
	2
U. J. Pittman, B.Sc., Soil Specialist.	

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A. W. Platt, B.Sc., M.Sc., Head, Cereal Breeding Laboratory.		4
J. J. Sexsmith, B.Sc., M.Sc., Weed Specialist.		12
S. B. Slen, B.A., B.Sc., M.Sc., Wool Specialist.		18
A. D. Smith, B.Sc., Supervisor of Illustration Stations.	2,	12, 17
P. H. Walker, B.Sc.: Field Husbandry and Irrigation.		7
Miss A. Wall, B.S.A., M.Sc., Cereal Breeder.		4
S. A. Wells, B.S.A., M.Sc., Cereal Breeder.		4
F. Whiting, B.Sc., M.Sc., Ph.D., Animal Nutritionist.		15
Experimental Station, Lacombe.		
G. E. DeLong, B.S.A., M.Sc., Superintendent.		1
J. G. Stothart, B.S.A., M.Sc., Assistant, Animal Husbandry.		14, 15
H. T. Fredeen, B.S.A., M.Sc., Assistant, Animal Husbandry.		14, 15
A. D. McFadden, B.Sc., M.Sc., Assistant, Cereals.		4, 7
H. W. Leggett, B.S.A., B.Sc., Assistant: field husbandry.		2, 12
H. B. Stelfox, B.Sc., M.Sc., Assistant: forest crops.		4, 8
H. T. Allen, B.Sc., M.Sc., Assistant: horticulture.		9
A. W. Wilton, B.S.A., Supervisor of Illustration Stations.		2, 7
A. R. Aitken, B.S.A., Supervisor of Illustration Stations.		2, 7
RANGE EXPERIMENT STATION, Manyberries.		
H. F. Peters, B.S.A., Officer-in-Charge.		1
W. A. Hubbard, B.S.A., M.Sc., Grazing Assistant.		8
Experimental Station, Beaverlodge.		
E. C. Stacey, B.A., M.Sc., Superintendent.		1
C. H. Anderson, B.Sc., Assistant: agronomy.		2
A. C. Carder, B.S.A., M.Sc., Assistant: field husbandry.		8, 12
A. A. Guitard, B.Sc., M.Sc., Assistant: cereals.		4
V. Chanasyk, B.Sc., Assistant: horticulture.		9
D. J. Macdonald, B.S.A., Supervisor of Illustration Stations.	2,	12, 17
Experimental Sub-Station, Fort Vermilion.		
V. J. Lowe, Officer-in-Charge.		1
British Columbia		
Experimental Station, Summerland.		
R. C. Palmer, B.SA., M.S.A., D.Sc., Superintendent.		1
F. E. Atkinson, B.S.A., Food Technologist: fruit and vegetable		30
products.		
A. J. Mann, B.S.A., Horticulturist: fruit breeding and root stocks.		4, 9
J. C. Wilcox, B.S.A., M.S.A., Ph.D., Horticulturist: orchard nutri-		2, 9
tion, irrigation.		,
C. C. Strachan, B.S.A., M.S.A., Ph.D., Food Technologist: fruit		30
and vegetable products.		
D. V. Fisher, B.S.A., M.S.A., Ph.D., Horticulturist: fruit harvest-		0, 30
ing and storage.		
C. A. Hornby, B.S.A., M.S.A., Ph.D., Horticulturist: vegetable		2, 4, 0
breeding and nutrition.		
J. L. Mason, B.S.A., Horticulturist: orchard nutrition, irrigation.		, 0

CANADA Subject S. W. Porritt, B.S.A., Horticulturist: fruit harvesting and storage 9, 30 J. E. Miltimore, B.S.A., Agronomist: forage crops and dairy cattle. 8, 17 A. W. Moyls, B.S.A., Food Technologist: fruit and vegetable pro-30 ducts. EXPERMENTAL FARM, Agassiz. W. H. Hicks, B.S.A., Superintendent. 1, 14, 15, 17 M. F. Clarke, B.S.A., M.S.A., Assistant: agronomy. 4, 7, 8, 28 T. H. Anstey, B.S.A., M.S.A., Ph.D., Assistant: horticulture. 4,9 D. K. Taylor, B.S.A., M.Sc., Assistant: cereals. 4, 7 R. M. Hall, B.S.A., Supervisor of Illustration Stations. 7, 27 B. A. Dickson, B.S.A., M.S.A., Soils Specialist. 2 EXPERIMENTAL STATION, Saanichton J. J. Woods, B.S.A., M.S.A., Superintendent. 1 H. J. Kemp, B.S.A., Assistant: engineering. 28 E. R. Hall, B.S.A., Assistant: horticulture; fruits. 9 J. H. Crossley, B.S.A., M.S.A., Assistant: horticulture, bulbs. 9 R. M. Adamson, B.A., N.Sc., M.Sc., Assistant: vegetables and seeds. 9 R. H. Turley, B.S.A., Assistant: fodder plants. 8 2 G. R. Webster, B.S.A., Assistant: soils and plant nutrition. RANGE EXPERIMENT STATION, Kamloops, B.C. T. G. Willis, B.S.A., M.S.A., Officer in Charge. 1, 8 8 A. McLean, B.S.A., M.Sc. 8 M. A. MacDonald, B.S.A., M.S.A. EXPERIMENT STATION, Prince George. 1, 4 F. V. Hutton, B.S.A., Superintendent. 9 J. R. Barry, B.S.A. 8 A. C. Wilton, B.S.A. EXPERIMENTAL SUB-STATION, Smithers, B.C. W. T. Burns, B.S.A., M.Sc., Superintendent. 2, 7, 8, 12 J. V. Zacharias, B.S.A. EXPERIMENTAL SUB-STATION, Whitehorse, Y.T. J. W. Abbott, Officer in Charge. 1 EXPERIMENTAL SUB-STATION, Fort Simpson, N.W.T. 1 J. A. Gilbey, B.S.A., M.Sc., Officer in Charge. DEPARTMENT OF RESOURCES AND DEVELOPMENT ADMINISTRATIVE H. L. Keenleyside, M.A., Ph.D., LL.D., Deputy Minister. 1

Ottawa, Ontario. D. A. Macdonald, B.Sc.F., Director.

FORESTRY BRANCH

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Forest Economics Section	27
Allon Peebles, B.A., Ph.D., Chief.	27
A. L. Best, B.Sc.F.	27
G. C. Wilkes, B.Sc.F.	direct 18
Forest Research Division	
G. Tunstell, B.Sc.F., Chief	1
SILVICULTURAL SECTION	
A. Bickerstaff, B.Sc.F., Head.	10
J. L. Farrar, B.Sc.F., M.F.	10
G. C. Cunningham, B.ScF	10
L. A. Smithers, B.Sc.F., M.Sc.F.	10
K. T. Logan, B.Sc.F.	10
J. W. Fraser, B.Sc.F.	10
D. R. Hemming, B.Sc.F.	10
E. G. Daly, B.Sc.F.	10
Forest Management Section	
R. H. Candy, B.A., Head.	10
G. H. D. Bedell, B.Sc.F.	10
D. W. MacLean, B.Sc.F.	10
Inventories Section	
H. E. Seely, B.Sc.F., Head.	10
J. M. Robinson, M.B.E., B.Sc.F.	10
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F. D. MacAndrews, B.Sc.F.	10
W. H. Hilborn, B.Sc.F.	10
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C. C. Thomson, B.Sc.F.	10
A. B. Berry, B.Sc.F.	10
A. B. Vincent, B.Sc.F.	10
QUEBEC: Valcartiere Forest Experiment Station, Loretteville, P.Q.	
R. G. Ray, B.A., B.Sc.F., District Forest Officer.	10
Andre Linteau, B.A., B.Arp., F.E., M.F., Ph.D.	10
J. C. Boynton, B.Sc.F.	10
Ontario: Petawawa Forest Experiment Station, Chalk River, Ont.	
H. D. Heaney, B.Sc.F., Superintendent.	10
E. S. Atkins, B.Sc.F.	10
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Manitoba-Saskatchewan: Federal Bldg., Winnipeg, Man. V. H. Phelps, B.Sc.F., Phm.B., District Forest Officer. J. S. Rowe, B.Sc., M.Sc. G. M. Wilson, B.Sc.F. M. Kastrukoff, B.Sc.F. R. T. Pike, B.Sc.F. Alberta: 701 Public Bldg., Calgary, Alta. J. L. McLenahan, B.Sc.F., District Forest Officer. D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F. J. Quaite, B.A., B.S.F.	10 10 10 10 10 10 10 10 10 10
V. H. Phelps, B.Sc.F., Phm.B., District Forest Officer. J. S. Rowe, B.Sc., M.Sc. G. M. Wilson, B.Sc.F. M. Kastrukoff, B.Sc.F. R. T. Pike, B.Sc.F. ALBERTA: 701 Public Bldg., Calgary, Alta. J. L. McLenahan, B.Sc.F., District Forest Officer. D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10 10 10 10 10 10 10
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M. Kastrukoff, B.Sc.F. R. T. Pike, B.Sc.F. ALBERTA: 701 Public Bldg., Calgary, Alta. J. L. McLenahan, B.Sc.F., District Forest Officer. D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10 10 10 10 10
R. T. Pike, B.Sc.F. ALBERTA: 701 Public Bldg., Calgary, Alta. J. L. McLenahan, B.Sc.F., District Forest Officer. D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10 10 10 10
ALBERTA: 701 Public Bldg., Calgary, Alta. J. L. McLenahan, B.Sc.F., District Forest Officer. D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10 10 10
J. L. McLenahan, B.Sc.F., District Forest Officer. D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10 10
J. L. McLenahan, B.Sc.F., District Forest Officer. D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10 10
D. I. Crossley, B.Sc.F. H. A. Parker, B.A., B.Sc.F. W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10 10
W. K. MacLeod, B.A., B.S.F. A. W. Blyth, B.Sc.F.	10 10 10
A. W. Blyth, B.Sc.F.	10 10
J. Quaite, B.A., B.S.F.	10
Forestry Operation Division	
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Superintendent—Vacant.	
Timber Mechanics Section	
W. E. Wakefield, <i>Head</i> : timber mechanics.	11
D. C. Miller, B.Sc.: veneers and plywoods.	11
W. Butterworth, B.Sc.: containers.	11
R. W. K. Peterson, B.Sc.: dielectric heating.	11
D. E. Kennedy, B.A.Sc.: timber engineering.	11
Miss E. I. Kennedy: timber engineering.	11
J. W. Rudnicki, B.Sc.: engineering.	11
Wood Preservation and Pathology Section	
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H. P. Sedziak, M.S.: wood preservation chemistry.	11
M. J. Colleary: wood preservation.	11
J. Krzyzewski, B.Sc., Chemist.	- 11
PAINTS AND COATINGS UNIT	
R. C. Hubbard: paints and coatings.	11
R. C. Hubbard. paints and coatings.	11
PATHOLOGY UNIT :	
Miss C. W. Fritz, Ph.D., B.A., M.Sc.: timber pathology.	11
E. A. Atwell, B.S.A., M.Sc.	11
Wood Chemistry Section	
Wood Chemistry Section	11
H. Schwartz, Ph.D., Head.	11
F. W. King, B.A.	11
F. Bender. wood as raw material.	11
L. P. Clermont, B.A.Sc.	11

	Subject
WOOD UTILIZATION SECTION K. G. Fensom, B.A., B.Sc.F., Chief.	11
Logging and Milling Unit	
J. B. Prince, M.Sc.F., : secondary industries.	11
G. E. Bell, B.Sc.F.: milling.	11
A. W. B. Benson, B.Sc.F.: logging.	11
Wood Technology Unit.	
J. D. Hale, M.A.	11
D. C. McIntosh, M.A.	11
Lumber Seasoning Unit	
R. S. Millett, B.Sc. A. G. Glappia R.Sc. F. seasoning.	11
A. G. Glennie, B.Sc.F.	11
Vancouver Laboratory	
University of British Columbia.	
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R. M. Brown, B.Sc.F., M.B.E., Superintendent.	1
Administration Section	
R. S. Perry, C.E.	11
TIMBER MECHANICS SECTION	
J. B. Alexander, M.Sc., Head.	11
P. L. Northcott, B.A.Sc.: plywoods. W. J. Smith, B.A.Sc.: timber engineering.	11
w. J. Smith, D.A.Sc timber engineering.	11
Wood Chemistry Section	
J. A. F. Gardner, M.A., Ph.D.	11
H. MacLean, B.A., M.A. G. M. Barton, M.A.	11
J. 12. Darton, 11.11.	11
Wood Utilization Section	
F. W. Guernsey, B.A.Sc. (F.), Head.	11
C. F. McBride, B.A.Sc., : milling. C. F. Archer, B.Sc.F. : seasoning.	11
G. R. W. Nixon, B.A.Sc.: logging.	11
K. W. Rymer, B.Sc.F.: seasoning.	11
WOOD PRESERVATION AND DATES	
Wood Preservation and Pathology Section W. M. Conners, B.A.Sc., Head.	
H. W. Eades, B.Sc.F., : pathology.	11
W. C. Fountain, B.Sc.F.: pathology,	11
J. W. Roff, B.Com. B.S.F.: preservation,	11
G. Bramhall, B.A.Sc.: preservation.	11

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G. A. Adams, B.A., M.Sc., Ph.D., <i>Biochemist</i> : carbohydrates and cellulose.	24
A. C. Blackwood, B.Sc., M.Sc., Ph.D., <i>Bacteriologist</i> : industrial fermentations.	22
K. A. Clendenning, B.A., M.A., Ph.D., <i>Biochemist</i> : photosynthesis N. E. Gibbons, M.B.E., B.A., M.A., Ph.D., <i>Bacteriologist</i> : bacon curing and egg preservation.	5 22
P. R. Gorham, B.A., M.S., Ph.D., Plant Physiologist: photosynthesis.	5
N. H. Grace, M.B.E., B.A., M.A., Ph.D., F.R.S.C., Biochemist: fats and oils.	24
G. W. Harmsen, B.Sc., M.Sc., Ph.D., <i>Microbiologist</i> : cellulose and industrial fermentations.	22
J. S. Hart, B.A., M.A., Ph.D., <i>Animal Physiologist</i> : environmental relations.	13
R. H. Haskins, B.A., M.A., Ph.D., <i>Mycologist</i> : industrial fermentations.	20
J. W. Hopkins, M.B.E., B.Sc., M.Sc., Ph.D., Statistician: biometry and design of experiments.	29
R. V. Lemieux, B.A., Ph.D., Organic Chemist: carbohydrates. J. B. Marshall, B.S.A., M.A., Ph.D., Plant Physiologist: utiliza-	24 3
tion of agricultural products. A. C. Neish, B.Sc. (Agr.), M.Sc., Ph.D., <i>Biochemist</i> : industrial. fermentations.	24
J. A. Pearce, B.A., M.A., Ph.D., Chemist: dairy products. D. Rose, B.Sc. (Agr.), M.Sc., Ph.D., Biochemist: muscle studies. H. R. Sallans, B.Sc., M.Sc., Ph.D., Biochemist: oil seeds. R. W. Watson, B.A., M.A., Ph.D., Chemist: industrial fermenta-	24 25 25 24
tions. J. A. Wheat, B.E., Chemical Engineer: plant design; industrial fermentations.	25
ivision of Chemistry	
E. W. R. Steacie, O.B.E., M.Sc., Ph.D., D.Sc., F.R.S.C., F.R.S., Director.	1
A. Cambron, O.B.E., M.Sc., Ph.D., F.R.S.C., Assistant Director. C. H. Bayley, M.B.E., M.A.Sc., M.A., F.C.I.C., F.T.I., Chemist:	1 24
textile research, including rot proofing C. Y. Hopkins, M.A., Ph.D., Chemist: seed oils.	24

	Subject
P. Larose, M.B.E., M.Sc., Ph.D., F.T.I., Chemist: textile fibres.	24
L. Marion, M.B.E., M.Sc., Ph.D., F.R.S.C., Chemist: chemical	24
study of plants, alkaloids.	
1. E. Puddington, M.Sc., Ph.D., F.R.S.C., Chemist: potato products.	24
S. Kirkwood, Ph.D., Chemist: chemical study of alkaloids.	24
S. KITKWOOD, Ph.D., Chemist . chemical study of alkaloids.	24
O. E. Edwards, Ph.D., Chemist: chemical study of alkaloids.	
Production Service	
PLANT PRODUCTS DIVISION	
C. W. Leggatt, B.S.A., M.Sc., Ph.D., Agricultural Scientist, Gr. 4:	3, 12
seed research.	
W. H. Wright, B.S.A., M.A., F.A.I.C., Chief Laboratory Services:	3, 12
seed research.	
B. B. Migicovsky, B.S.A., M.Sc., Ph.D., Agricultural Scientist,	15, 25
Grade 4: vitamin research.	
Miss A. W. Anderson, B.A., Agricultural Scientist, Grade 2: seed	3, 12
research.	
Marketing Service	
Administrative Division	8
A. M. Shaw, C.M.G., B.S.A., Director.	0
Eggyorge Dynasov	
Economics Division J. F. Booth, O.B.E., B.S.A., M.S., Ph.D., LL.D., Associate Director,	27
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in charge of Economics.	27
J. Coke, B.S.A., M.S., Principal Economist: co-ordinator of re-	41
search projects.	
AGRICULTURAL POLICY AND PRICES	27
A. E. Richards, B.S.A., M.A., Ph.D., Principal Economist: foreign	27
and domestic policies.	0.17
J. N. Lewis, B.A., M.A., Senior Economist: foreign agricultural	27
policies.	-
F. Shefrin, B.S.A., M.Sc., Economist: domestic agricultural policies.	27
E. Jaska, Dr. Agr., Associate Economist: foreign agricultural	27
policies.	
F. Lawrence, B.A., M.A., Associate Economist: foreign agricultural	27
policies.	
F. M. Schrader, B.S.A., M.Sc., <i>Economist</i> : statistical analyses and	27
prices of farm products.	
Production Economics	
S. C. Hudson, B.S.A., M.S., Ph.D., Principal Economist: research	27
in production economics and farm management.	
A. Gosselin, B.A., B.S.A., Senior Economist: farm management.	27
G. P. Boucher, B.S.A., M.S., Economist: farm management.	27
R. Choquette, B.A., B.S.A., Ph.D., Assistant Economist: farm	27
management.	
J. A. Dawson, B.S.A., M.S., Assistant Economist: farm accounting.	27

MARKETING AND CO-OPERATION	Subject
A. H. Turner, B.Com., M.S., Senior Economist: research in marketing and co-operative studies.	27
E. P. Reid, B.A., M.A., Senior Economist: transportation economics. J. M. Gray, B.S.A., M.S.A., Assistant Economist: research in marketing of fruit and vegetables.	27 27
M. Rachlis, B.S.A., M.S., Assistant Economist: research in marketing of dairy products	27
J. E. O'Meara, B.A., M.A., <i>Economist</i> : research in agricultural cooperatives.	27
Miss C. I. Johnston, B.A., M.A., Assistant Economist: research in rural food habits.	27
RURAL SOCIOLOGY Miss M. A. MacNaughton, B.H.Sc., M.A., Assistant Economist: research in level of living of rural families.	27
Regional Offices:	
C. C. Spence, B.S.A., Ph.D., Senior Economist: Western Supervisor of land utilization and farm management studies.	27
Vancouver: E. D. Woodward, B.S.A., M.S.A., Associate Economist: research in farm management.	27
H. W. Trevor, B.S.A., M.S.A., Associate Economist: research in farm management.	27
Edmonton: S. Mysak, B.S.A., M.Sc., Economist: research in land utilization. T. Askin, B.S.A., Assistant Economist: research in farm management.	27 27
Saskatoon:	
R. A. Stutt, B.S.A., M.Sc., <i>Economist</i> : research in land utilization. M. E. Andal, B.S.A., M.Sc., <i>Assistant Economist</i> : research in farm	27 27
management. G. Haase, B.S.A., M.Sc., Assistant Economist: research in land utilization.	27
Winnipeg: T. O. Riecken, B.S.A., Associate Economist: research in farm management.	27
Truro: G. C. Retson, B.A., Associate Economist: research in farm management.	27
Nova Scotia Agricultural College, Truro, N.S.	27

DEPARTMENT OF TRADE AND COMMERCE	Subject
Board of Grain Commissioners, Grain Research Laboratory Winnipeg.	
 J. A. Anderson, M.Sc., Ph.D., F.R.S.C., Chief Chemist. I. Hlynka, M.Sc., Ph.D., Biochemist: bread wheat research. T. R. Aitken, Cereal Chemist: annual quality studies. W. O. S. Meredith, B.S.A., M.Sc., Ph.D., Biochemist: malting barley research. 	5, 25 5, 25 5, 25 5, 25
A. E. Paull, B.A., Ph.D., Statistician: experimental methods. G. N. Irvine, B.Sc., Ph.D., Physical Chemist: durum wheat research. D. K. Cunningham, B.A., Biochemist: analytical research. I. Levi, B.Sc., Cereal Chemist: analyses. C. J. Dempster, B.Sc., Physical Chemist: bread wheat. E. J. Bass, B.Sc., Biochemist: malting barley.	29 5, 25 5, 25 5, 25 5, 25 5, 25
Bureau of Statistics	
Ottawa. Herbert Marshall, O.B.E., B.A., F.R.S.C., Statistician.	27, 29
Agriculture Division	
C. V. Parker, B.S.A., M.A., <i>Director</i>.W. D. Porter, B.Com., M.A., <i>Statistician</i>: crop estimation; grain marketing.	27, 29 27, 29
W. F. Ewert, B.S.A., M.Sc., Statistician: live stock estimates; meat and wool production	27, 29
A. D. Holmes, B.A., Statistician: research in statistical methods; crop-weather relations.	27, 29
R. E. Johnson, B.S.A., M.Sc., <i>Statistician</i> : fruits and vegetables; special crop estimates.	9, 29
J. K. Finlayson, B.S.A., Statistician: poultry and fur estimates. P. H. Ferguson, B.S.A., M.Sc., Statistician: dairy products estimates.	27, 29 27, 29
D. G. Campbell, B.A., Statistician: field crop estimates. H. E. Comer, B.Sc., Statistician: research statistical methods. J. W. Channon, B.S.A., Statistician: live stock estimates. J. H. Grisdale, B.S.A., Statistician: field crop estimates.	27, 29 29 27, 29 27, 29
W. G. Morris, B.A., Statistician: farm finance estimates.	27, 29
Census Demography Division	20
O. A. Lemieux, M.B.E., M.S.A., Ph.D., Director. J. L. Forsyth, M.Sc., Chief, Agricultural Census. R. S. Ellis, B.Sc., Assistant Chief, Agricultural Computer Computer Chief, Agricultural Chief, Agricultural Chief, Agricultural Chief, Chief, Agricultural Chief,	29 29
R. S. Ellis, B.Sc., Assistant Chief, Agricultural Census. J. A. Arsenault, B.Sc., Assistant Chief, Agricultural Census.	29
Forestry Section	
L. J. Pouliot, Chief.	29

Subject

PROVINCES OF CANADA

PROVINCIAL FOREST SERVICES

BRITISH COLUMBIA

Department of Lands and Forests	
C. D. Orchard, B.Sc.F., M.Sc.F., D.Sc., Deputy Minister and Chief	1
Forester.	
R. C. St. Clair, B.S. (C.E.), M.S.F., Assistant Chief Forester.	1
E. B. Prowd, B.Sc.F., Forester: management administration.	1
S. E. Marling, B.S.F., Forester: management administration.	1
R. C. Telford, B.Sc., Assistant Forester: management working plans.	10
G. M. Abernethy, B.A.Sc., Assistant Forester: management appraisals.	10
F. S. McKinnon, B.Sc.F., M.F., Forester: Economics (Forest).	27
J. L. Alexander, B.Sc.F., Forester: mensuration studies.	10
R. H. Spilsbury, B.S.A., Forester: soils—site classification.	2
E. H. Garman, B.Sc.F., M.F., Assistant Forester: silvicultural studies.	10
H. M. Pogue, B.A.Sc., Assistant Forester: forest surveys.	10
G. C. Warrack, B.Sc.F., Assistant Forester: silvicultural studies.	10
A. L. Orr-Ewing, B.Sc.F., Assistant Forester: rodent studies.	15
R. G. McKee, B.A.Sc., <i>Forester</i> : forest protection—fires, insects, disease.	1
D. W. Perrie, B.Sc., Meteorologist: weather.	26
H. G. McWilliams, B.A.Sc., Forester: reforestation.	1
E. G. Oldham, B.Sc.F., Forester: parks and recreation.	1
R. D. Greggor, B.A.Sc., Forester: Ranger School.	1
W. C. Pendray, B.S.A., Agrologist: stock grazing.	8
L. S. Hope, B.Sc.F., Silviculturist: Nelson District.	10
C. D. Grove-White, B.S.F., Silviculturist: Kamloops District.	10
L. A. de Grace, B.A., B.S.F., M.F., Silviculturist, Aleza Lake Ex-	10
periment Station.	
ONTARIO	
Department of Lands and Forests	
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F. A. MacDougall, B.Sc.F., Deputy Minister.	1
G. E. Ponsford: air service.	30
T. E. Mackey, B.Sc.F.: forest protection.	1
E. J. Zavitz, B.Sc.F.: reforestation.	1
R. N. Johnston, B.Sc.F.: research.	1
F. W. Beatty, D.L.S., C.E.: surveys and engineering.	28
J. F. Sharpe, B.Sc.F.: timber management.	1
W. J. K. Harkness, D.Sc., M.A., B.A.: fisheries and wildlife.	1
W. D. Cram, B.Sc.F.: land and recreation areas.	1
K. Acheson, B.Sc.F.	
P. Addison, B.Sc.F.	
A. S. Bray, B.Sc.F. Regional Foresters.	1
E. L. Ward, B.Sc.F.	
F. S. Newman, B.Sc.F.	

	Subject
M. Adamson, B.Sc.F. G. M. Linton, B.Sc.F. Forest Station Superintendents. G. M. Linton, B.Sc.F.	1
P. S. Carman, B. Sc. F., Superintendent of Seed Extracting I with.	1 1
P. McEwen, B.Sc.F., Director, Ontario Forest Ranger School.	2
G. A. Hills, M.S.A., B.S.A., Chief Soil Specialist.	10
J. A. Brodie, B.Sc.F., Officer-in-Charge of Forest Resources Inventory.	
QUEBEC	
Department of Lands and Forests	
Avila Bédard, M.A., M.F., I.S.O., Deputy-Minister.	1
Forest Protection Service	1
H. Kieffer, F.E., Director.	1
G. H. Bernier, F.E., Assistant.	26
G. O. Villeneuve, F.E., Ph.D., Chief of Meteorological Bureau. L. Daviault, B.S.A., M.Sc., D.Sc., Chief of Entomological Bureau.	19
L. Daviauit, D.S.M., M.Sc., D.Sc., Child by Ellichters	
FOREST SERVICE	1
R. Deschamps, F.E., Director.	10
R. Bellefeuille, Chief of the Forest Economy Bureau.	11
L. de G. Dubois, F.E., Chief of the Minor Industries Bureau. R. Pomerleau, B.S.A., D.Sc., Chief of the Pathology Bureau.	6
R. Delisle, F.E., Director of Forest Extension Bureau.	10
R. Valin, F.E., Chief of the Forest Products Bureau (Statistics)	29
J. R. A. Legendre, Chief of Wood Bureau (Montreal).	11
J. Risi, D.Sc., Chief of Forest Products Laboratory (Duchesnay)	11
ALBERTA	
Department of Lands and Forests	
John Harvie, Deputy Minister.	1, 10, 11
E. S. Huestis, Director of Forestry.	1, 10, 11
J. P. Alexander, B.Sc.F., O.B.E., Snr. Supt., Eastern Rockies	10, 11
Forest Service, New Telephone Building, Calgary.	10, 11
F. G. Edgar, B.Sc.F., Supt., Bow River Forest Reserve, 128—7th Ave. West, Calgary.	10, 11
J. R. H. Hall, Supt., Clearwater Forest Reserve, Rocky Mountain House, Alberta.	10, 11
Donald Buck, Supt., Brazeau-Athabaska Forest Reserve, Edson, Alberta.	10, 11
V. A. Wood, B.Sc.Agric., M.Sc.Agric., Director of Lands.	2, 8
J. A. Campbell, B.Sc., M.Sc.Agric., Grazing Appraiser, Edmonton.	8
A. D. Paul, B.Sc.Agric., Soil Classifier, Administration Building,	?
Edmonton.	
W. P. Coad, B.Sc.Agric., Soil Examiner, Administration Building, Edmonton.	2
E. S. Fellows, M.Sc.F., <i>Chief Forester</i> , Eastern Rockies Forest Con-	10, 11
servation Board, Public Building, Calgary.	
W. R. Hanson, B.Sc.Agr., M.Sc., Grazing Appraiser.	8

SASKATCHEWAN	Subject
Department of Natural Resources and Industrial Development	
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C. R. Christie, B.Sc.F., Senior Forester.	1
B. A. Matheson, District Superintendent.	1
F. Warburton, District Superintendent.	1
A. Hansen, District Superintendent.	1
C. L. McLean, Northern Administrator.	1
W. T. Ritchie, Director of Parks and Lands.	1
O. G. Horncastle, Forester.	10
W. A. McNeill, B.Sc.F., Forester.	10
H. G. Pond, B.Sc.F., Forester.	10
H. P. Eisler, B.Sc.F., Forester.	10
F. H. Hewett, B.Sc.F., Forester.	10
A. O. Aschim, Forester. J. M. Atkinson, B.Sc.F., Forester.	10
R. V. Brittain, B.Sc.F., Forester.	10
M. A. Laird, B.Sc.F., Forester.	10 10
M. N. Palley, A.B., B.Sc.F., M.F., Forester.	10
I. Kagis, F.E. (Forestry Branch Agricultural Academy of Latvia),	10
Forester.	10
A. Kabzems, F.E. (Forestry Branch Agricultural Academy of	10
Latvia), Forester.	
W. D. Smith, B.A.Sc., Research Engineer.	11
R. F. Arnold, Statistician.	29
NOVA SCOTIA	
Department of Lands and Forests	
G. W. I. Creighton, B.A., B.Sc.F., Deputy Minister.	1
E. L. Boulter, B.Sc.F., Assistant Provincial Forester.	1, 10
D. A. Benson, B.A., Wildlife Biologist: management of game and	18
fur-bearers.	
K. N. H. Greenidge, B.Sc.F., M.F., Forest Biologist.	3, 10
L. S. Hawboldt, B.Sc. (Agr.), M.Sc., Forest Entomologist.	1
MANITOBA	
Department of Mines and Natural Resources	
·	1
D. M. Stephens, Deputy Minister.	1
J. G. Somers, Provincial Forester.	1
R. Harvey, District Forester.	1
E. A. Koons, District Forester. T. B. Vernilyea, District Forester.	1
A. W. Braine, B.Sc.F., District Forester.	1
S. W. Schortinghuis, B.Sc.F., Chief of Forest Protection.	1
C. B. Gill B.Sc. F. Chief of Forest Management.	10

NEW BRONSWICK	
Department of Lands and Mines	
G. H. Prince, D.Sc., I.S.O., Deputy Minister. G. L. Miller, C.E., D.L.S., M.Sc., Chief Forester. K. B. Brown, B.Sc., Director of Photogrammetry.	1 1 1
UNIVERSITIES	
McGILL UNIVERSITY	
Faculty of Agriculture	
Macdonald College, P.Q. W. H. Brittain, M.S. in Agr., Ph.D., D.Sc., F.R.S.C., Vice- Principal, Macdonald College; Dean, Faculty of Agriculture; Professor of Entomology: economic insects, especially fruit in-	1, 19
sects; insect biology. L. G. Heimpel, M.S., Associate Professor and Chairman of the De-	28
partment of Agricultural Engineering: crop processing machinery.	
J. H. Cooper, B.Sc. (Agr.), Assistant Professor of Agricultural	28
Engineering: crop processing machinery. L. C. Raymond, M.S., Professor of Agronomy: corn and roots investigations and breeding; pasture investigations.	4, 8
E. A. Lods, M.S.A., Associate Professor of Agronomy: agronomy;	4
cereal investigations and breeding. H. A. Steppler, B.Sc.A., M.Sc., Assistant Professor of Agronomy:	4
forage breeding. A. R. Ness, B.S.A., Professor and Chairman of the Department of Animal Husbandry: animal production and breeding.	14
L. H. Hamilton, M.S., Associate Professor of Animal Husbandry: sheep and wool production and beef production.	18
P. H. H. Gray, M.A., D.Sc., Associate Professor and Chairman of the Department of Bacteriology: soil microbiology.	2
F. S. Thatcher, Ph.D., Assistant Professor of Bacteriology: physiology of micro-organisms; mode of action of antibiotics; food microbiology.	2
W. A. DeLong, B.S.A., M.Sc., Ph.D., F.C.I.C., Associate Professor of Chemistry: plant biochemistry (respiration, mineral metabolism); soil chemistry.	2
D. G. Chapman, B.S.A., M.Sc., Demonstrator in Chemistry: separation of the basic amino acids using the synthetic resin "Duolite"	2
B. E. Baker, Ph.D., Lecturer in Chemistry: the isolation of amino acids from natural sources.	2
J. E. Lattimer, Ph.D., F.R.E.A., Professor and Chairman of the	27
Department of Agricultural Economics: agricultural economics. E. M. DuPorte, Ph.D., Associate Professor of Entomology: insect morphology; medical entomology; protozoology.	19
F. O. Morrison, B.A., B.Sc. (Agr.), M.Sc., Ph.D., Associate Professor of Entomology: insect toxicology; general economic entomology.	19

Subject

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G. L. Burton, B.A., M.A., Ph.D., Professor: agricultural economics.	27
D. L. MacFarlane, B.S.A., M.Sc., Ph.D., Professor: agricultural economics.	27
W. E. Whitehead, M.Sc., Lecturer in Entomology: insect pests of	10
domestic animals; Acarina, Anoplura.	19
H. R. Murray, M.Sc., Associate Professor and Chairman of the De-	9
partment of Horticulture: breeding and improvement of vege-	
tables and general horticulture.	
A. N. Nussey, B.Sc. (Agr.), Lecturer in Pomology: pomology—propagation.	4
E. W. Crampton, M.S., Ph.D., F.R.S.C., Professor and Chairman	15
of the Department of Nutrition: animal nutrition; experimental	13
methods.	
G. C. Ashton, M.Sc., Lecturer in Animal Nutrition: animal nutri-	15
tion; experimental methods.	
W. Rowles, M.Sc., Ph.D., Associate Professor and Chairman of the	2
Department of Physics: soil physics and radiation studies.	
W. F. Oliver, B.A., M.A., Ph.D., Associate Professor of Physics:	2
soil physics; radio active tracer experiments in agriculture.	. 6
J. G. Coulson, M.A., D.Sc., Associate Professor and Chairman of the Department of Plant Pathology: deficiency diseases; market	.6
pathology; physiology of parasitic diseases.	
R. A. Ludwig, M.Sc., Assistant Professor of Plant Pathology: cereal	6
and forage crop pathology.	
W. A. Maw, M.S.A., Associate Professor and Chairman of the Depart-	15, 18
ment of Poultry Husbandry: poultry meat production and	
quality studies.	15 10
N. Nikolaiczuk, M.Sc., Assistant Professor of Poultry Husbandry:	15, 18
poultry nutrition studies in growth and egg production.	
stitute of Paristology	
Macdonald College, P.Q.	
T. W. M. Cameron, T.D., M.A., Ph.D., D.Sc., M.R.C.V.S., V.S.	18
(Ontario and Quebec), F.R.S.C., Director, Professor of Animal	
Parasitology and Chairman of the Department.	
D. Fairbairn, B.A., Ph.D., Assistant Professor of Parasitology,	18
Research Assistant: biochemistry in relation to parasitology.	18
M. J. Miller, B.Sc., M.Sc., Ph.D., M.D., Assistant Professor of Parasitology, Research Assistant: parasites of man in Canada.	10
E. Munroe, M.Sc., Ph.D., Lecturer in Parasitology, Research	18
Assistant: ecology of helminths.	
L. P. E. Choquette, B.A., M.Sc., D.V.M., Lecturer in Parasitology,	21
Research Assistant, Curator and Systemist.	
UNIVERSITE LAVAL	
culte d'Agriculture	
Ste-Anne de la Pocatiere, P.Q.	
F. X. Jean, B.A., M.Sc., L.Ph., Dean of the Faculty.	7
A. Sirois, B.S.A., Professor agrégé of Agricultural Engineering:	28
soil drainage	

L. de G. Fortin, B.L., B.S.A., Professor agrege of Animal Husbanary.	17
C. Cagné, B.S., B.S.A., M.A., Professor of Agricultural Economics:	27
land tenure; rural credit.	
E. Campagna, B.A., B.S.A., D.Sc., Professor of Botany: quince	3
rust; Ustilaginales and Uredinales of Quebec.	
M.A. Pineau, B.A., L.Sc., C.D., D.Sc., F.C.I.C., Professor of Bio-	25
	20
chemistry.	2
A. Scott, B.A., B.S.A., M.S.A., Professor of Soil Technology:	4
soil survey.	
Maurice St-Pierre, B.A., B.S.A., Ph.D., Professor of Animal Nutri-	15
tion: swine production.	
Albert Alarie, B.S.A., Ph.D., chargé de cours : Soil Bacteriology.	22
Joseph Chevrette, B.A., B.Sc.Agr., Ph.D., Professor of Agronomy.	8
Gerard Gaudette, B.A., B.Sc.Agr., M.Sc., Agr., Professor agrégé	29
Economics and Statistics.	
M. Auguste Mailloux, B.Sc.Agr., L.Sc., Chargé de cours : geology.	2
J. Duncan, B.Sc.Agr., M.Sc.Agr., Chargé de cours: entomology.	19
G. Villeneuve, B.A., B.Sc.For., Ph.D., Chargé de cours: meteorology.	26
	10
R. Delisle, B.A., Forestry Engineer, Chargé de cours: silvilculture.	5
L. Caron, B.A., B.Sc.Agr., Chargé de cours : chemistry.	3
UNIVERSITE de MONTREAL	
nstitut Agricole d'Oka	
La Trappe, P.Q.	
R. P. Norbert, o.c.r., <i>Director</i> , L.S.A.	21
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R. P. Louis Marie, o.c.r., B.A., M.S., Ph.D.: ecology of weeds	3
R. Fr. Isidore, o.c.r., Dr. S.A.: improvement of dairy cattle.	18
Fernand Corminboeuf, B.S.A., I.C., chemistry and bacteriology	24
M.S., 1 II.D.	
Edouard Drochu, D.S.A., B.A., M.S.	17
Gustave Toupin, B.A., D.S.A., M.S.: vitamins in relation to	17
improvement of dairy cattle.	
Chs. A. Fontaine, B.A., D.S.A., M.S.: auximones in relation to	2
soil fertility.	
P. H. Vézina, B.S.A., D.S.A.: pasture studies.	7, 8
Firmin Létourneau, B.S.A., L.S.S. \rural and social economy in	27
Aimé Gagnon. Quebec.	27
R. Fournier, L.S.A.: agricultural mechanics.	28
Ad. Graton, B.A., B.S.A.: poultry nutrition.	18
A. Leduc, M.S.A., D.Sc.: pasture studies.	
Lawrence O'Grady I S A Ph D : phochagus and sail fartility	8
Lawrence O'Grady, L.S.A., Ph.D.: phosphorus and soil fertility.	2
Jean-Marie Demers, L.S.A.: animal nutrition.	15
R. P. Fernand, o.c.r., L.S.A.: fruit management.	9
R. P. Fernand, o.c.r., L.S.A.: fruit management. R. Fr. Laurent, L.S.A.: Avian genetics.	

Subject

W. R. Reek, M.B.E., B.S.A., LL.D., President and Acting Director

Ontario Agricultural College

Guelph, Ontario.

of Research.

DEPARTMENT OF APICULTURE	Subject
G. F. Townsend, B.S.A., M.S.A., Head of Department of Apiculture:	19, 22
apicultural research. P. W. Burke, B.S.A., Lecturer in Apiculture: apicultural research.	19
DEPARTMENT OF ANIMAL NUTRITION	1 5
H. D. Branion, B.A., M.A., Ph.D., Head of Department of Animal Nutrition: general animal and poultry nutrition work.	15
D. C. Hill, B.S.A., M.S.A., Ph.D., Professor of Animal Nutrition:	15
general animal and poultry nutrition work. I. Motzok, B.S.A., M.S.A., Ph.D., Professor of Animal Nutrition:	15
general animal and poultry nutrition work.	
Department of Animal Husbandry	
R. G. Knox, B.S.A., Head of Department of Animal Husbandry:	18
breeding and production problems, beef cattle. G. E. Raithby, B.S.A., <i>Professor of Animal Husbandry</i> : breeding	18
and production problems, dairy cattle.	
A. D. Runions, B.S.A., <i>Professor of Animal Husbandry</i> : problems in sheep production.	18
E. C. Stillwell, B.S.A., M.S., Associate Professor of Animal Hus-	18
bandry: problems in meat storage.	18
M. W. Staples, B.S.A., M.S., Associate Professor of Animal Husbandry: breeding problems, horses.	10
R. P. Forshaw, B.S.A., M.Sc., Associate Professor of Animal Hus-	18
w. O. Kennedy, B.S.A., Associate Professor of Animal Husbandry:	18
horses.	18
T. D. Burgess, B.S.A., : artificial insemination.	10
DEPARTMENT OF AGRICULTURAL ENGINEERING	
C. G. E. Downing, B.E., M.E.I.C., Head of Department of Agricultural Engineering: building construction and farm sewage dis-	28
posal. F. L. Ferguson, B.S.A., Professor of Agricultural Engineering:	28
land drainage.	20
E. G. Webb, B.S.A., Associate Professor of Agricultural Engineering: farm machinery.	28
H. W. Kitching, B.S.A., Assistant Professor of Agricultural En-	28
gineering: rural electrification. J. R. Scott, B.S.A., Associate Professor of Agricultural Engineering:	28
farm machinery and land clearing:	
Department of Agricultural Economics	
W. M. Drummond, M.A., Professor and Head of the Department.	27
H K Leckie M A. Professor of Agricultural Economics.	27
C W Riley B S A. M.S.A. Professor of Agricultural Economics.	27 27
N. H. High, B.S.A., M.S., Associate Professor of Agricultural Economics.	4
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M. W. Farrell, M.A., A.M., Ph.D., Associate Professor of Agricultural	Subje 2
Economics. S. H. Lane, B.S.A., M.Sc., Assistant Professor of Agricultural Economics.	2
Department of Bacteriology	
E. H. Garrard, B.S.A., M.S.A., Head of Department of Bacteriology:	2
pullorum control and general agricultural bacteriology. A. Davey, B.S.A., <i>Professor of Bacteriology</i> : plant diseases and	2
soil microbiology. D. B. Shutt, B.S.A., C.S.I. (C), Associate Professor of Bacteriology:	. 2
general agricultural bacteriology. L. A. McDermott, B.S.A., M.S.A., Associate Professor of Bacter-	2.
iology: general agricultural bacteriology.	
M. L. Wright, B.S.A., M.S.A., C.S.I. (C), Associate Professor of Bacteriology: pullorum antigen studies.	2:
F. E. Chase, B.S.A., M.S.A., Associate Professor of Bacteriology: salmonella food poisoning types in fowl.	2:
J. W. Connor, B.S.A., M.S.A., C.S.I. (C), Assistant in Bacteriology: microbiology of foods.	2
W. H. Burton, B.S.A., Assistant Professor of Bacteriology: pullorum	2:
control and fumigation studies. F. H. S. Newbould, B.S.A., Assistant in Extension of Bacteriology:	22
pullorum control. J. A. Carpenter, B.S.A., M.S.A., Assistant Professor of Bacteriology:	22
general agricultural bacteriology. G. W. Anderson, B.S.A., M.S.A., Assistant in Research.	22
DEPARTMENT OF DAIRY HUSBANDRY	
W. H. Sproule, B.S.A., Head of Department of Dairy Husbandry:	17
cheese and butter.	
F. W. Hamilton, B.S.A., Associate Professor of Dairy Husbandry: butter manufacture.	17
O. R. Irvine, B.S.A., M.S.A., Associate Professor of Dairy Husbandry: cheddar cheese.	17
A. G. Leggatt, B.S.A., M.S.A., Assistant in Research in Dairy Husbandry: butter manufacture.	17
A. M. Pearson, B.S.A., Lecturer in Dairy Husbandry: ice-cream.	17
DEPARTMENT OF BOTANY	
J. D. MacLachlan, B.A., A.M., Ph.D., Head of Department of Botany: minor element deficiencies particularly boron and	6
manganese; turnip diseases. D. R. Sands, B.S.A., M.S., <i>Professor of Botany</i> : vegetable diseases.	(
W. G. Evans, B.S.A., M.S., Associate Professor of Botany: weed control and fruit diseases.	6
R. O. Bibbey, B.S.A., M.Sc., Ph.D., Professor of Botany.	()
F. H. Montgomery, B.A., M.A., Associate Professor of Botany.	()
A. A. Wellwood, B.A., B.Sc., Associate Professor of Botany.	0

	CANADA
S. A. Simmons, B.S.A., M.A., Assistant Professor of Botany: ornamental diseases with special reference to gladioli.	Subject 6
R. T. Riddell, B.A., M.A., Lecturer in Botany: cytogenetics with special reference to alsike clover.	6
DEPARTMENT OF CHEMISTRY	
R. S. Brown, M.A., Ph.D., Head of Department of Chemistry: chemistry of hercibides	24
L. R. Bryant, M.A., F.C.I.C., Professor of Chemistry and Dairy Chemist: dairy science and technology.	24
L. A. Birk, B.A., M.S., F.C.I.C., Associate Professor of Chemistry: insecticides; fungicides and herbicides.	24
D. MacDougall, B.A., M.Sc., Ph.D., Associate Professor of Chemistry: food and plant analysis.	24
D. Waghorne, B.S.A., M.C.I.C., Assistant Professor of Chemistry: plant lipoids.	24
W. H. Brown, M.A., M.C.I.C., Assistant Professor of Chemistry: synthesis of insecticides; chemurgy of hexoses and related products.	24
J. R. Rothwell, B.S.A., Assistant Professor.	24
Department of Entomology and Zoology	
A. W. Baker, B.S.A., Professor of Systematic Entomology and Zoology and Head of the Department: insect taxonomy and morphology.	19
H. W. Goble, B.S.A., M.S., Provincial Entomologist and Professor of Entomology: insect control.	19
R. H. Ozburn, B.S.A., M.S., <i>Professor of Entomology</i> : nosema apis and histological structure of insects.	19
A. G. McNally, M.A., Associate Professor of Entomology: agricultural zoology.	19
W. E. Heming, B.S.A., Ph.D., Associate Professor of Entomology. W. C. Allan, B.S.A., Assistant Professor of Entomology.	19 19
A. J. Musgrove, B.Sc., M.Sc., A.R.C.S., D.I.C., Assistant Professor of Entomology.	19
J. G. Oughton, B.A., Ph.D., Associate Professor: soil protozoa and nematodes.	19
DEPARTMENT OF FIELD HUSBANDRY	
G. P. McRostie, B.S.A., M.S.A., Ph.D., Head of Department of Field Husbandry: field crops.	2, 8, 13
O. McConkey, B.S.A., M.S., Ph.D., Professor of Field Husbandry: forage crops.	2, 8, 13
J. Laughland, B.S.A., Professor of Field Husbandry: nematode control.	2, 8, 13
J. R. Weir, B.S.A., M.Sc., Ph.D., Professor of Field Husbandry:	2, 8, 13
forage crops. R. Keegan, B.S.A., Associate Professor of Field Husbandry: cereals	2, 8, 13

and alfalfa.

	Subject
D. N. Huntley, B.S.A., M.S.A., Lecturer in Field Husbandry: barley investigations.	2, 8, 13
R. G. Fulkerson, B.S.A., Assistant in Research.	2, 8, 13
W. E. Tassell, B.S.A., M.S.A., Lecturer.	2, 8, 13
Department of Horticulture	
J. S. Shoemaker, B.S.A., M.Sc., Ph.D., Head of Department of Horticulture: fruits.	9
T. O. Graham, B.S.A., M.S., Professor of Horticulture: vegetables.	9
R. Goodwin-Wilson, B.S.A., Associate Professor of soils and green-house floriculture.	9
T. H. Jones, B.S.A., Assistant Professor of Horticulture: greenhouse vegetables.	9
E. W. Franklin, B.S.A., M.S.A., Assistant Professor of Horticulture.	9
J. A. Weall, Technical Instructor in Horticulture: landscaping.	9
C. C. Filman, B.S.A., M.Sc., Lecturer in Horticulture: vegetables on muck.	9
J. C. Taylor, Assistant in Horticulture: floriculture.	9
Evelyn Stevenson, B.A., Assistant in Horticulture: processing fruits and vegetables.	9
Louise W. Heringa, Instructor in Horticulture: ericaceous plants.	9
Margaret L. Ashmore, B.A., M.A., Assistant in Research.	9
H. W. Burley, B.S.A., Assistant in Research.	9
DEPARTMENT OF POULTRY HUSBANDRY	
J. R. Cavers, B.S.A., M.S., Head of Department of Poultry Husbandry: disease control; nutrition; hatchability.	14, 15, 18
E. S. Snyder, B.S.A., M.S., Professor of Poultry Husbandry: genetics; marketing.	14, 15, 18
S. J. Slinger, B.S.A., M.S.A., Assistant in Research in Poultry Husbandry: nutrition; hatchability.	14, 15, 18
J. E. Bergey, B.S.A., Professor of Poultry Husbandry: nutrition; incubation.	14, 15, 18
J. H. Pettit, B.S.A., M.S.A., Associate Professor of Poultry Husbandry.	14, 15, 18
C. M. Huntsman, B.S.A., Assistant Professor of Poultry Husbandry.	14 15 18
A. E. Ferguson, B.S.A., Assistant in Research.	14, 15, 18
A. M. Morphet, B.S.A., Assistant in Research in Poultry Husbandry:	14, 15, 18
turkey research.	
K. M. Gartley, B.S.A., Assistant in Research in Poultry Husbandry: nutrition and physiology.	14, 15, 18
DEPARTMENT OF SOILS	
F. A. Stinson, B.S.A., M.S.A., Ph.D., Head of Department of Soils:	2
soil surveys; soil fertility; soil chemistry and plant nutrition.	-
F. F. Morwick, B.S.A., M.S.A., F.C.I.C., Associate Professor of Soils.	2
T. J. Heeg, B.S.A., F.C.I.C., Associate in Research in Soils: rapid	2

T. J. Heeg, B.S.A., F.C.I.C., Associate in Research in Soils: rapid

N. J. Thomas, B.S.A., M.Sc., Associate in Extension. W. T. Ewen, B.S.A., M.S.A., Associate in Extension.

chemical tests.

L. R. Webber, B.S.A., Soil Specialist in Soils: soil conservation.	Subject 2
A. L. Willis, B.S.A., Assistant in Research in Soils: soil chemistry.	2
J. W. Ketcheson, B.S.A., Assistant in Research in Soils: soil fertility.	2
A. G. Caldwell, B.S.A., M.S.A., Soil Specialist.	2
R. R. Bruce, B.S.A., Soil Specialist.	2
B. C. Matthews, B.S.A., A.M., Lecturer.	2
J. A. Shivas, B.S.A., M.S.A., Assistant in Research.	2
G. Baker, B.S.A., Soil Specialist.	2
DEPARTMENT OF PHYSICS:	
R. C. Moffatt, M.A., Head of Department of Physics: statistical	29
analysis.	47
E. B. MacNaughton, B.A., M.A., Ph.D., Associate Professor of Physics.	
J. G. F. Morton, B.Sc., B.Eng., Associate Professor of Physics.	
J. G. Smith, B.S.A., Lecturer in Physics: agricultural meteorology.	26
P. F. Clarke, B.A.Sc., Lecturer.	
Ontario Veterinary College	
A. L. MacNabb, D.V.M., D.V.Sc., Principal, Ontario Veterinary	1
College.	1
J. A. Henderson, B.V.Sc., M.S., Professor of Medicine: cattle	14
diseases.	16
D. L. T. Smith, B.V.Sc., <i>Professor of Pathology</i> : veterinary research T. L. Jones, B.V.Sc., M.Sc., C.S.I. (C), <i>Professor of Pathology</i> :	. 16
veterinary research.	10
J. D. Schroder, D.V.M., Assistant in Research Department of	16
Pathology: veterinary research.	
A. F. Bain, D.V.M., Professor, Department of Preventive Medicine	22
and Hygiene: bacteriology. J. McGregor, D.V.M., Associate Professor, Department of Para-	10 21 23
sitology.	19, 41, 43
J. P. W. Gilman, B.V.Sc., Associate Professor, Department of	13
Anatomy (Histology and Embryology)	
W. R. LeGrow, B.S.A., D.V.M., M.S., Ph.D., Department of Extension and Research: brucellosis.	14
J. H. Ballantyne, D.V.M., Professor, Department of Anatomy:	13
anatomical research.	10 01 00
B. M. McCraw, B.A., Assistant Professor, Department of Para-	19, 21, 23
sitology.	
ONTARIO DEPARTMENT OF AGRICULTURE	
Iorticultural Experimental Station, Vineland Station	1 0 4 0
E. F. Palmer, B.S.A., LL.D., Director	1, 2, 4, 9
W. H. Upshall, B.S.A., M.S., Ph.D., Chief in Research: tree fruits.	4, 9
O. J. Robb, B.S.A., Assistant in Research: vegetables. G. H. Dickson, B.S.A., Assistant in Research: tree fruits.	4, 9
G. II. DICASOII, D.S.II., HISTORIA IN HOSCARCH. CICC HARES.	., -

J. R. van Haarlem, B.S.A., M.S., Associate in Research: Orchard	Subject 2, 9, 25
soil management. D. L. Bailey, B.A., M.S., Ph.D., Pathologist: plant diseases. C. B. Kelly, B.S.A., M.S., Assistant in Extension: pomology. A. N. L. Butler, B.S.A., M.S., Associate in Research: vegetable canning crops.	3, 6 6, 9 9
E. A. Kerr, B.A., M.Sc., Ph.D., Assistant in Research: greenhouse and canning vegetables.	4, 9
J. F. Brown, B.S.A., Assistant in Research: small fruits. J. H. L. Truscott, B.Sc., M.Sc., Ph.D., Professor: refrigeration fruits and vegetables.	4, 9 9, 30
O. A. Bradt, B.S.A., Assistant in Research: tree fruits, grapes.	4, 9
ONTARIO RESEARCH FOUNDATION	
43, Queen's Park, Toronto 5, Canada. Tel.: KI. 2191. H. B. Speakman, D.Sc., Director. L. J. Chapman, B.S.A., M.Sc., Crop Ecologist. A. M. Fallis, B.A., M.A., Ph.D., Parasitologist. D. F. Putnam, B.S.A., Ph.D., (part-time), Geographer. Marie Sanderson, B.A., M.A., Climatologist. B. P. Skey, A.E., M.S.A., Ph.D., Agricultural Economoist. J. F. A. Sprent, B.Sc., Ph.D., M.R.C.V.S. (Lond.), Helminthologist. D. M. Davies, B.A., Ph.D., Entomologist. H. B. Marshall, M.A., Ph.D., Wood Chemist. D. A. Sitch, B.Sc., Ph.D., Wood Chemist. A. C. Shaw, B.Sc., Wood Chemist.	1 2, 26 21 2, 26 26 27 21, 22 21 11 11
Winnipeg.	
Faculty of Agriculture	
J. W. G. MacEwan, B.S.A., M.Sc., Dean of Faculty of Agriculture and Home Economics.	1
A. V. Mitchener, <i>Professor of Entomology</i> : economic entomology; apiculture.	19
G. L. Shanks, B.S.A., M.S., Associate Professor of Agricultural Engineering: farm machinery.	28
J. M. Brown, N.D.D., B.S.A., M.S., Professor of Animal Science: sheep; dairy cattle; nutrition.	15, 17
G. C. Hodgson, B.S.A., M.S., Associate Professor of Poultry Husbandry: nutrition.	14, 15
J. H. Ellis, B.S.A., M.S., Professor of Soils: soils. Alfred Savage, B.S.A., D.V.M., M.R.C.V.S., Provincial Animal Pathologist, Professor of Bacteriology and Animal Pathology: animal reproduction and animal diseases.	16, 22
Norman James, B.S.A., M.S., Ph.D., Professor of Bacteriology: soil microbiology.	20, 22
M. C. Jamieson, B.S.A., M.Sc., Assistant Professor of Bacteriology: dairy bacteriology.	20, 22

	CANADA
	Subject
J. M. Isa, B.S.A., M.Sc., B.V.Sc., V.S., Honorary Lecturer in Animal Science, Assistant Animal Pathologist: parasitology.	16, 22
A. D. Robinson, B.A., M.A., Ph.D., Assistant Professor of Chemistry: agricultural chemistry.	5, 25
R. W. Brown, B.S.A., M.S., Professor of Dairy Science: dairy products.	17
P. J. Olson, B.S., M.S., Ph.D., Professor of Plant Science: plant breeding.	4, 7, 12
E. T. Anderson, B.Sc., M.Sc., Assistant Professor of Plant Science: vegetable breeding; fruits.	9
Solomon Sinclair, B.S.A., M.Sc., Assistant Professor of Political Economy: farm management.	27
R. R. Lejeune, B.S.A., M.Sc., Honorary Lecturer in Entomology: forest insects.	19
Peter A. Kondra, B.S.A., M.Sc., Assistant Professor of Poultry Husbandry: poultry breeding.	14, 15
Jack J. Paterson, B.S.A., M.Sc., Assistant Professor of Agricultural Engineering: farm machinery.	28
R. F. Peterson, B.S.A., M.S., Ph.D., Honorary Lecturer in Plant Science.	4
E. C. Martin, B.S.A., M.Sc., Honorary Lecturer in Entomology.	19
N. E. K. Campbell, B.S.A., M.S., Assistant Professor of Bacter-iology: bacteriology of soils and grains.	20, 22
S. B. Helgason, B.S.A., M.S., Assistant Professor of Plant Science: forages.	4, 8
James A. Hobbs, B.S.A., M.Sc., Ph.D., Assistant Professor of Soils: soils.	2
E. W. Stringam, B.S.A., M.Sc., Ph.D., Assistant Professor of Animal Science: animal breeding.	14
A. J. Thorsteinson, B.S.A., Ph.D., Assistant Professor of Entomology: insect physiology.	19
J. D. Wahn, B.S.A., M.Sc., Assistant Professor of Agricultural Economics: marketing studies.	27, 29
UNIVERSITY OF SASKATCHEWAN	
Saskatoon.	
V. E. Graham, B.S.A., M.S., Ph.D., Dean, Faculty of Agriculture: dairy bacteriology.	1, 22
W. P. Thompson, B.A., M.A., Ph.D., D.Sc., F.R.S.C., President of the University: cytogenetic investigations especially in cereals.	1, 3, 4
C. F. Patterson, B.S.A., M.S., Ph.D., Professor of Horticulture:	4, 9
fruit breeding. V. Fowke, B.A., M.A., Ph.D., Associate Professor of Economics:	27
agricultural economics. M. Champlin, B.S.A., M.S., Professor of Field Husbandry: crop	7, 8, 12
improvement and cultural methods. J. B. Harrington, B.S.A., M.S., Ph.D., Professor of Field Husbandry: cereal breeding.	4, 7, 8
A. H. Ewen, M.A., B.Sc., Professor of Animal Husbandry: animal breeding and management.	14, 15, 17

CANADA

UANADA		
J. S. Fulton, D.V.M., D.V.S., Professor and Director, Animal	Subject 13, 16, 22	
Diseases Laboratory: virus diseases. J. L. Miller, B.V.S., Associate Professor in Veterinary Medicine: diseases of farm animals.	13, 16	
W. J. Rae, B.S.A., M.S., <i>Professor of Poultry</i> : poultry breeding and management.	14, 18	
J. B. O'Neil, B.S.A., M.S.A., Associate Professor of Poultry: poultry feeding and nutrition.	15, 18	
E. A. Hardy, B.Agr.Eng., M.S., Professor of Agricultural Engineering: farm implements; fuels and farm buildings.	28	
D. L. Gibson, M.B.E., B.S.A., M.Sc., Ph.D., Associate Professor of Dairying: manufacture of dairy products.	17, 25	
H. Van Vleit, B.S.A., M.Sc., Professor of Farm Management: land economics.	27, 29	
J. Michell, B.S.A., M.S., Ph.D., <i>Professor of Soils</i> : soil survey and soil fertility.	2, 24	
H. G. Dion, B.S.A., M.S., Ph.D., Associate Professor of Soils: soil chemistry.	2, 24	
E. Y. Spencer, B.Sc., M.Sc., Ph.D., Associate Professor of Chemistry: cereal chemistry.	24, 25	
H. Gerrie, B.S.A., M.Sc., Assistant in Field Husbandry: management of experimental plots.	4, 7, 12	
T. C. Vanterpool, B.S.A., M.Sc., Professor of Plant Pathology: cereal and flax diseases.	3, 6, 20	
T. J. Arnason, B.Sc., M.A., Ph.D., Associate Professor of Biology: plant genetics.	4, 14	
B. W. Currie, B.Sc., M.S., Ph.D., Professor of Physics: meteorology and climatology.J. W. T. Spinks, Ph.D., F.R.S.C., Professor of Chemistry: radio-	26	
active tracers. J. A. Weir, Ph.D., Associate Professor of Animal Husbandry:	2, 24 14, 17	
animal genetics. L. H. Shebeski, B.S.A., M.Sc., Associate Professor of Field Hus-	4, 12	
bandry: cereal breeding. W. L. Hutcheon, M.Sc., Assistant Professor in Soils: soil physics.	2, 24	
J. Milton Bell, B.Sc., M.S., Ph.D., Assistant Professor in Animal Husbandry: animal nutrition.	15, 17	
R. T. Coupland, B.S.A., Ph.D., Assistant Professor in Plant Ecology: plant ecology.	3, 8, 12	
UNIVERSITY OF ALBERTA		
Edmonton.		
aculty of Agriculture		
R. D. Sinclair, B.S.A., M.S., Ph.D., Dean of the Faculty of Agriculture and Professor of Animal Husbandry: investigations in animal nutrition.	15, 18	
A. W. Henry, M.S.A., Ph.D., Professor of Plant Pathology: diseases of crop plants.	0	
A. G. McCalla, B.Sc., M.Sc., Ph.D., Professor of Plant Science: chemistry and physiology of wheat; protein chemistry.	5	

CANADA

J. D. Newton, B.S.A., Ph.D., <i>Professor of Soils</i> : soil micro-biology and soil surveys.	Subject 2
J. Macgregor Smith, B.S.A., <i>Professor of Agricultural Engineering</i> : regional use of farm machinery (soil drifting control).	28
E. H. Strickland, M.Sc., <i>Professor of Entomology</i> : grain crop pests. H. R. Thornton, B.Sc., Ph.D., <i>Professor of Dairying</i> : butter defects and rancidity in dairy products.	19 22
J. E. Bowstead, M.Sc., Ph.D., Associate Professor of Animal Husbandry: live stock breeding and nutritional investigations.	14, 17
D. R. Clandinin, B.S.A., M.S.A., Associate Professor of Poultry Husbandry: investigations in poultry nutrition.	18
R. J. Hilton, B.Sc., Ph.D., Associate Professor of Horticulture: breeding and testing new fruit varieties for the Prairies.	9
Leroy Peter Vernon Johnson, B.Sc., M.Sc., Ph.D., Associate Professor of Genetics and Plant Breeding: improvement of cereal and forage crops.	4
L. W. McElroy, B.Sc., M.Sc., Ph.D., Associate Professor of Animal Husbandry: investigations in animal nutrition.	15, 18
C. F. Bentley, B.Sc., M.Sc., Ph.D., Assistant Professor of Soils: fertilizers and crops.	2
John Patterson Bowland, B.S.A., M.S., Ph.D., Assistant Professor of Animal Husbandry: investigations in animal nutrition.	15
W. G. Corns, B.Sc., M.Sc., Ph.D., Assistant Professor of Plant Science: plant physiological investigations.	12
Brian Hocking, B.Sc., M.Sc., Assistant Professor of Entomology: grain crop pests.	19
Alexander Robinson Robblee, B.Sc., M.Sc., Ph.D., Assistant Professor of Poultry Husbandry: investigations in poultry nutrition.	18
John Alfred Toogood, B.Sc., Ph.D., Assistant Professor of Soils: soil physics.	2
John Unrau, B.S.A., M.Sc., Ph.D., Assistant Professor of Genetics and Plant Breeding: improvement of cereal and forage crops.	2
F. W. Wood, B.Sc., M.Sc., Assistant Professor of Dairying: butter	22
defects and rancidity in dairy products. Robert Hugh Knowles, B.S.A., Lecturer in Horticulture: studies	9
in landscaping. Warren Edward Smith, B.Sc., M.Sc., Lecturer in Field Crops:	12
crop improvement. Lloyd Muir Smith, B.Sc., M.Sc., Lecturer in Dairying: estimation	17
of milk lipase. B. T. Stephanson, B.E., Lecturer in Agricultural Engineering:	17
machinery and methods for harvesting forage crops for seed. A. S. Ward, B.S.A., M.Sc., Lecturer in Soils: soil fertility.	2

UNIVERSITY OF BRITISH COLUMBIA

FACULTY OF AGRICULTURE

B. A. Eagles, B.A., Ph.D., Dean of the Faculty of Agriculture: 22, 25 dairy bacteriology and biochemistry.

CANADA

	Subject
DEPARTMENT OF AGRICULTURAL ECONOMICS	
F. M. Clement, B.S.A., M.A., D.Sc. (Honoris Causa), <i>Professor and Head</i> (Retiring).	27
W. J. Anderson, B.S.A., M.Sc. (Sask.), Associate Professor: agricultural economics and farm management.	27
Department of Agricultural Engineering	
J. R. W. Young, B.S.A., M.Sc. (Sask.), Associate Professor and Acting Head of the Department: farm machinery and agricultural mechanics and engineering.	28
 F. C. Leroux, B.A. (Sask.), Associate Professor: food processing. T. L. Coulthard, B.E. (Sask.), Assistant Professor: irrigation and drainage. 	28 28
Department of Agronomy	
G. G. Moe, B.S.A., M.Sc., Ph.D., Professor and Head: genetics studies in alfalfa.	4
D. G. Laird, B.S.A., M.S., Ph.D., <i>Professor of Soils</i> : activators for soil bacteria.	2
V. C. Brink, B.S.A., M.S.A., Ph.D., Associate Professor: genetics; range management studies.	8
C. A. Rowles, M.Sc., D.Phil., Associate Professor: chemical and physical properties of soils; soil survey.	2
DEPARTMENT OF ANIMAL HUSBANDRY	
H. M. King, B.S.A., M.S., <i>Professor and Head</i> : dairy cattle production and classification.	17
S. N. Wood, B.S.A., D.V.M., <i>Professor</i> : animal diseases.	13
J. C. Berry, B.S.A., M.S.A., Ph.D., Associate Professor: animal breeding, genetics.	14
A. J. Wood, B.S.A., M.S.A., Ph.D., Associate Professor: animal nutrition.	15
DEPARTMENT OF DAIRYING	
B. A. Eagles (above), Professor and Head.	
J. J. R. Campbell, B.S.A., Ph.D., Associate Professor: chemistry of bacteria.	25
Nora Neilson, B.S.A., M.S.A., Instructor: bacteriological chemistry; mycology.	20
DEPARTMENT OF HORTICULTURE,	
A. F. Barss, A.B., B.S. in Agr., M.S., Ph.D., <i>Professor and Head</i> : seed growing and plant breeding; fruit and vegetable processing.	9
G. H. Harris, B.S.A., M.S., Ph.D., <i>Professor</i> : plant nutrition studies: food values of horticultural crops; respiration; growth studies.	3
J. W. Neill, B.S.A., Assistant Professor: floriculture and land-scape gardening.	Q

CANADA Subject DEPARTMENT OF POULTRY HUSBANDRY E. A. Lloyd, B.S.A., M.S.A., Professor and Head: poultry breed-14 ing for meat and egg production; development of new breeds; management. Jacob Biely, B.S.A., M.S.A., Associate Professor: poultry nutrition: 15, 16 pathology. FIELDS OF RESEARCH Staff of Department of Forestry Lowell Besley, B.S. (Cornell), M.F. (Yale), Professor and Head of De-10, 27 partment: forest economics and finance. F. Malcolm Knapp, B.S.F. (Syracuse), M.S.F. (Washington), Pro-1, 11, 28 fessor and Director of University Forests: logging engineering; utilization and marketing. George S. Allen, M.A.Sc. (Brit. Col.), Ph.D. (California), Professor: 1, 4, 10 silvics, silviculture, forest genetics. Braham G. Griffith, M.A. (Brit. Col.), M.F. (Harvard), Ph.D. 2, 3, 10 (Washington), Associate Professor: silivics, forest soils, forest management. Robert W. Wellwood, B.A.Sc. (Brit. Col.), Ph.D. (Duke), Associate 11, 30 Professor: wood technology and mechanics, plywood, forest William L. Johnson, B.Sc.F. (New Brunswick), Associate Professor: 28

Harry C. Haines, B.Sc. (Purdue), M.F. (Duke), Assistant Professor:

John W. Ker, B.A.Sc. (Brit. Col.), Assistant Professor: forest

10

10, 29

aerial forest surveys and mapping.

mensuration, forest research methods.

forest fire protection.

A.—COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION

Subject

314, Albert Street, East Melbourne, C.2., Victoria. (Tel. —JA. 6 I. Clunies Ross, D.V.Sc., <i>Chairman</i> . G. A. Cook, M.C., M.Sc., B.M.E., <i>Secretary</i> .	5611).
Division of Animal Health and Production Divisional Headquarters, and Animal Health Research Laboratory Flemington Road, Parkville, Melbourne, N.2., Victoria. Tel.: FJ.4659).	
L. B. Bull, D.V.Sc., Chief of Division: pathology. A. J. Vasey, B.Agr.Sc., Divisional Secretary. N. M. Tulloh, B.Agr.Sc., Assistant Divisional Secretary.	1, 16 17 18
A. W. Turner, O.B.E., D.Sc., D.V.Sc., Officer in Charge: clostridiosis, wheat, toxicity, bacterial enzymes	1, 16, 22
T. S. Gregory, Dip.Bact., B.V.Sc.: tuberculosis, foot-rot, contagious abortion.	16, 22
D. Murnane, B.V.Sc.: bovine mastitis (clinical chemotherapy, serology)	16, 22
A. D. Campbell, L.V.Sc.: pleuro-pneumonia.	22
R. H. Watson, D.Sc.Agr.: sex physiology of sheep.	13
A. T. Dick M.Sc.: immuno-chemistry, bovine haematuria.	22, 25
A. T. Dick, M.Sc.: copper poisoning, chemical pathology. E. Munch-Petersen, M.Sc., B.A., M.I.F.: bovine mastitis (bacteriology).	16, 25 22 14
F. Skaller, B.Agr.Sc.: poultry breeding.	
A. W. Rodwell, M.Sc.: bacteriology, bacterial enzymes.	22, 25
J. B. Bingley, D.A.C.: copper poisoning, analytical chemistry. Miss C. E. Eales, B.Sc.: bacteriology	24, 25
Miss M. J. Monsbourgh, B.Sc.: bovine mastitis (bacteriology)	22 22
H. G. Turner, B.Agr.Sc.: dairy cattle production.	17
G. Alexander, B.Agr.Sc.: sex physiology of sheep, oestrogen assay.	13
G. W. Grigg, B.Sc.: animal genetics	14
H. M. Radford, B.Sc.: sex physiology of sheep.	13
Miss V. E. Hodgetts, B.Sc.: bacteriology and biochemistry.	22, 25
) McMaster Animal Health Laboratory	
Parramatta Road, Glebe, New South Wales (Tel: M.W. 1600).	
D. A. Gill, M.R.C.V.S., D.V.S.M., Officer in Charge: bacteriology	1, 16, 22
and pathology	
H. McL. Gordon, B.V.Sc.: helminthology (epidemiology and anthelmintics)	21
M. C. Franklyn, M.Sc., Ph.D. (Cantab.): sheep and cattle nutri-	15, 25

tion.

D. F. Stewart, B.V.Sc., Dip.Bact. (Lond.): bacteriology and immunology.	Subject 22
W. P. Rogers, M.Sc., Ph.D. (Lond.): helminth physiology. C. R. Austin, M.Sc., B.V.Sc.: sex physiology, endocrinology.	21, 25 13
R. L. Reid, B.Sc.Agr., Ph.D. (Cantab.): ruminant metabolism. B. A. Forsyth, B.V.Sc.: helminthology. V. Massey, B.Sc. (Hons.): biochemistry.	15, 25 21
Miss M. T. Scott, B.Sc.: helminthology, ectoparasites of sheep. Miss P. M. Sambell, B.A.: helminthology. Miss H. B. Esserman, B.Sc.: biochemistry.	25 19, 21 21 25
(d) Wool Biology Laboratory,	
17 Randle Street, Sydney, New South Wales (Tel.: MA.9606). H. B. Carter, B.V.Sc., Officer in Charge: wool biology. Miss M. H. Hardy, M.Sc., Ph. D. (Contab.) a resal biology.	1, 13
Miss M. H. Hardy, M.Sc., Ph.D. (Cantab.): wool biology, tissue culture. K. A. Ferguson, B.V.Sc.: wool biology.	13
Miss P. Davidson, B.Sc.: wool biology.	13 13
A. A. Dunlop, M.Agr.Sc., Ph.D.: sheep breeding.	14
(e) FLEECE ANALYSIS LABORATORY,	
Villawood, New South Wales (Tel.: U.B. 1315). N. F. Roberts, M.Sc., Officer in Charge: fleece analysis, wool	1 10
metrology.	1, 18
L. T. Wilson, B.Sc.: fleece analysis, wool metrology.	18
(f) REGIONAL PASTORAL LABORATORY	
Armidale, New South Wales. (Tel.: Armidale 521).	
I. L. Johnstone, B.V.Sc., Officer in Charge: parasitology, animal production.	17 10 21
J. F. Barrett, B.V.Sc.: lambing mortality, animal production.	17, 19, 21 13, 17
W. H. Southcott, B.V.Sc.: helminthology (field studies) animal	18, 21
behaviour.	
(g) McMaster Field Station	
Badgery's Creek, New South Wales (Tel.: Badgery's Creek 7.) R. B. Kelley, D.V.Sc., Officer in Charge: animal breeding and	1, 14, 17
production. W. A. Boottio, B.A. II.B. (N.Z.) B.A. (Contab.): boof cattle	17
W. A. Beattie, B.A., LL.B. (N.Z.), B.A. (Cantab.): beef cattle production.	17
J. H. Riches, B.Sc. (Agr.), Ph.D.: wool production.	17
R. H. Hayman, B.Agr.Sc.: sheep and cattle breeding. J. A. Morris, B.Sc.Agr.: animal breeding, statistics	14, 17 14, 29
D. F. Dowling, B.VSc., B.Sc., Ph.D.: beef cattle breeding.	14
h) Veterinary Daragers on Laronatory	
h) Veterinary Parasitology Laboratory Fairfield Road, Yeerongpilly, Queensland. (Tel.: JY. 4581).	
F. H. S. Roberts, D.Sc., Officer in Charge: parasitology.	1, 19, 21
P. H. Durie, M.Sc.: internal parasites of cattle.	16 19

	Subject
(i) at Animal Health and Nutrition Laboratory	
Smyth Road, Nedlands, Western Australia. (Tel.: W.1990).	
A. B. Beck, M.Sc.: copper deficiency, endocrinology.	25
A. D. Deck, M.Sc copper denoted by, characteristics	
(j) NATIONAL FIELD STATION	
"Gilruth Plains," Cunnamulla, Queensland. (Tel.: Cunna-	
mulla 167).	1 14
J. F. Kennedy, M.Agr.Sc.: Officer in Charge: sheep breeding	1, 14
investigations.	
(k) at C.S.I.R.O. FOOD PRESERVATION RESEARCH LABORATORY	
Cannon Hill, Queensland. (Tel.: JY.1001).	
N. T. M. Yeates, B.Sc.Agr., Ph.D.: animal physiology, carcase	13, 17
appraisal.	
2. Division of Entomology	
P.O. Box 109, Canberra City, A.C.T. (Tel.: Canberra 644).	
A. J. Nicholson, D.Sc., Chief of the Division.	19
I. F. B. Common, M.A., B.Agr.Sc., Technical Secretary.	19
F. Wilson, Senior Research Officer: biological control of insect	19
pests and noxious weeds.	
T. G. Campbell, Research Officer: museum and biological control.	19
S. J. Paramonov, D.Sc., Senior Research Officer: taxonomy.	19
E. F. Riek, M.Sc., Research Officer: biological control and	19
taxonomy.	
D. F. Waterhouse, M.Sc., A.A.C.I., Senior Research Officer: insect	19, 25
physiology, toxicology.	
M. F. Day, B.Sc., Ph.D., Senior Research Officer: insect physiology	19, 25
and toxicology.	
D. Gilmour, M.Sc., Senior Research Officer: insect physiology and	19, 25
toxicology.	,
R. H. Hackman, M.Sc., Ph.D. (seconded from Division of Indus-	19, 24
trial Chemistry), Research Officer: insecticides, toxicology.	,
R. F. Powning, A.S.T.C., A.A.C.I., Research Officer: insecticides,	19, 24
toxicology.	22, 241
R. W. Kerr, B.Sc., Research Officer: insecticides.	19
K. R. Norris, M.Sc., Senior Research Officer: sheep blowfly in-	19
vestigations.	
K. H. L. Key, D.Sc., Senior Research Officer: locusts and pasture	19
pests.	* 7
P. B. Carne, B.Agr.Sc., Research Officer: pasture pests.	19
F. J. Gay, B.Sc., D.I.C., Research Officer: termites and forest	19
insects.	19
T. Greaves, Research Officer: vegetable pest control, ants.	10
T. Greaves, Resourch Officer. Vegetable pest control, ants.	19
A - W	
AT YEERONGPILLY, QUEENSLAND	
L. F. Hitchcock, M.Sc., Senior Research Officer: cattle tick.	19
W. J. Roulston, B.Sc., Research Officer: insecticides.	19
G. J. Snowball, B.Sc., Research Officer: cattle tick ecology.	19

At Bright, Victoria.	Subject
L. R. Clark, M.Sc., Senior Research Officer: ecology biological	19
control of weeds. N. Clark, B.Sc.Agr., Research Officer: ecology, biological control of weeds.	19
In Western Australia M. M. H. Wallace, B.Sc., Research Officer: earth mite investiga- gations.	19
Division of Plant Industry	
P.O. Box 109, Canberra City, A.C.T. (Tel.: Canberra 644). B. T. Dickson, B.A., Ph.D., Chief of the Division. W. Ives, M.Ec., Technical Secretary.	1
AGROSTOLOGY SECTION	
At CANBERRA.	
J. Griffiths Davies, B.Sc., Ph.D., Senior Principal Research Officer: in charge pasture and weed research.	8
C. S. Christian, M.Sc., <i>Principal Research Officer</i> : in charge of surveys of agricultural resources of tropical Australia and research on cattle pastures.	8
C. M. Donald, M.Agr.Sc., Principal Research Officer: in charge of	8
research on sheep pastures, southern Australia. C. G. Greenham, M.Sc., Senior Research Officer: in charge of	3
physiology of weeds.	3
R. M. Moore, B.Sc.Agr., Senior Research Officer: in charge of ecological and field research on weeds.	12
A. J. Anderson, B.Sc.Agr., Senior Research Officer: pasture plant	2
nutrition with special reference to soil deficiencies. W. M. Willoughby, B.Agr.Sc., Research Officer: sown pastures.	8
C. W. E. Moore, B.Agr.Sc., Research Officer: ecology and pasture	8
K. D. McLachlan, B.Agr.Sc., Research Officer: pastures and land	8
use studies.	
E. F. Biddiscombe, B.Agr.Sc., Research Officer: management of natural pastures.	8
R. A. Perry, B.Sc., Research Officer: ecology and pasture surveys	8
P. Goldacre, B.Sc., Research Officer: biochemistry of weed-killers. D. Spencer, B.Sc., Research Officer: biochemistry of plant nutri-	25 25
tion.	
At Brisbane and at Cooper Laboratory,	
Lawes, Queensland. T. B. Paltridge, B.Sc., Senior Research Officer: in charge of pas-	8
ture investigations; row cultivation of pastures.	
N. H. Shaw, B.Agr.Sc., Research Officer: beef cattle pastures. W. J. Bissett, Q.D.D., B.Agr.Sc., Research Officer: beef cattle	8
pastures, weed control.	
E. H. Kipps, B.Sc., Research Officer: pasture chemistry. Helen Barford B.Sc., Research Officer: plant nutrition studies.	5 2
The least the state of the stat	

At University of Western Australia,	
Perth, W.A. R. C. Rossiter, B.Agr.Sc., Senior Research Officer: sown pastures.	
R. C. Rossiter, D. Igr. Sc., Senior Research Officer. Sowii pastures.	
AT KOJONUP, W.A.	
H. L. Pennington, B.Agr.Sc., Research Officer: sown pastures.	
4 D D T	
At Regional Pastoral Laboratory, Deniliquin, N.S.W.	
R. W. Prunster, B.Sc.Agr., Senior Research Officer: Officer-in- Charge.	
A. L. Tisdall, M.Agr.Sc., Senior Research Officer: water relationships of irrigated pasture and crops.	
O. B. Williams, B.Agr.Sc., Research Officer: ecology and manage-	
ment of dryland pastures.	
Am Description T	
AT REGIONAL PASTORAL LABORATORY, Armidale, N.S.W.	
R. Roe, B.Agr.Sc., Senior Research Officer: ecology.	8
and management of summer rainfall natural pastures.	
E. J. Hilder, B.Agr.Sc., Research Officer: sown pastures.	8
HOST-PATHOGEN STUDIES	
AT CANBERRA	
H. R. Angell, O.B.E., B.Sc.Agr., M.S., Ph.D., Principal Research Officer: take-all of wheat; chemical composition of soil in relation to plant disease.	6
MICROBIOLOGY SECTION	
At CANBERRA	
D. O. Norris, D.Sc. (Agr.), Senior Research Officer: virus diseases	22
of tomato and potato.	
W. V. Ludbrook, B.Sc.Agr., M.S., Ph.D., Senior Research Officer: fungal diseases of potatoes,; nutritional studies on Pinus.	6
J. H. E. Mackay, B.Sc.Agr., Research Officer: Fusarium wilt of	6
tomatoes; antibiotics in plant disease control.	
Margaret Mills, B.Sc., Research Officer: late blight of potatoes.	6
Katie Helms, B.Sc., Research Officer: witch's broom of lucerne.	22
PLANT INTRODUCTION SECTION	
At CANBERRA	
W. Hartley, B.A., Dip.Agr., Principal Plant Introduction ()fficer: introduction and trial of pasture and crop plants.	3
C. A. Neal Smith, B.Agr.Sc., Research Officer: agronomic trials of	2
introduced plants.	3
Nancy T. Burbidge, M.Sc., Research Officer: systematic botany.	3
At Brisbane	
J. F. Miles, B.Agr.Sc., Senior Research Officer: agronomic trials of introduced plants.	3
A	

	Subject
At Perth E. T. Bailey, B.Sc., Research Officer: agronomic trials of introduced plants.	3
At Cooper Laboratory, Lawes, Queensland S. G. Gray, B.Sc.Agr., Research Officer: agronomic trials of introduced plants.	3
HORTICULTURE AND DRUG PLANTS SECTION	
At CANBERRA	
C. Barnard, D.Sc., <i>Principal Research Officer</i> : general botany, fruit, medicinal plants.	9
K. Loftus Hills, M.Agr.Sc., Senior Research Officer: medicinal plants.	4
Cynthia Rodwell, M.Sc., Research Officer: chemistry of medicinal plants, alkaloids.	5
At Hobart, Tasmania	
D. Martin, B.Sc., Senior Research Officer: fruit investigations, cool storage.	9
At Stanthorpe, Queensland	
L. A. Thomas, M.Sc., Senior Research Officer: fruit investigations, stocks and scions.	9
R. A. Colbran, B.Agr.Sc., Research Officer: fruit investigations, stocks and scions.	9
At Brisbane, Queensland	
L. J. Webb, Research Officer: systematic botany, medicinal plants.	3
/egetable Section	
At CANBERRA E. M. Hutton, B.Agr.Sc., M.Sc., Senior Research Officer: genetics	4
of virus resistance.	
D. C. Wark, M.Agr.Sc., Research Officer: genetics of disease resistance in peas.	4
R. D. Brock, B.Agr.Sc., Research Officer: genetics of disease resistance in tomato, potato, onion.	4
COBACCO SECTION At CANBERRA	
A. V. Hill, M.Agr.Sc., Principal Research Officer: Officer-in-	6
Charge; tobacco diseases. R. Johanson, B.Sc., Research Officer: chemistry of tobacco.	5
At Ayr, Queensland	
T. G. Haney, B.Sc.Agr., Research Officer: genetics and plant breeding.	4
W. J. Lovett, B. Agr. Sc., Research Officer: irrigation investigations.	12

PLANT PHYSIOLOGY SECTION	Subject
At CANBERRA	2
J. Calvert, D.Sc., F.L.S., Research Officer: plant physiology.	3
At Adelaide, South Australia	
L. A. T. Ballard, M.Agr.Sc., Ph.D., Principal Research Officer: plant physiology.	3
KATHERINE EXPERIMENT STATION, NORTHERN TERRITORY	
W. Arndt, B.Agr.Sc., Research Officer: crop and pasture investigations.	12
4. Division of Biochemistry and General Nutrition	
The University, Adeilaide, South Australia. (Tel: Central 6778).	
Miss S. H. Allen, B.Sc., A.A.C.I.: biochemistry; proteins.	25 3
J. E. Coaldrake, B.Sc.: plant nutrition. Miss M. C. Dawbarn, M.Sc.: accessory food factors.	15
D. W. Dewey: biochemical analyses.	15
F. V. Gray, M.Sc.: microbiology.	15
I. G. Jarrett, M.Sc., A.A.C.I.: animal physiology.	13
G. B. Jones, M.Sc., A.R.I.C., A.A.C.I.: chemical analyses.	24
R. H. Jones, R.D.A.: farm management.	18
H. J. Lee, M.Sc.: field experiments.	15
E. W. Lines, B.Sc.: animal nutrition.	15 15
H. R. Marston, F.R.S., F.A.C.I., <i>Chief of Division</i> : ruminant physiology, energetics, minor element deficiences.	13
Miss P. M. Macbeth, B.Sc.: microbiological analysis.	15
A. W. Peirce, D.Sc., F.A.C.I.: fluorine toxicosis, vitamin A.	15
A. F. Pilgrim, B.Sc.: microbiology.	15
B. J. Potter, B.Sc., A.A.C.I.: animal physiology.	13
J. K. Powrie, B.Sc. (Agr.): plant nutrition.	2
T. A. Quinlan-Watson, M.Sc.: tissue metabolism.	15
D. S. Riceman, M.Sc., B.Ag.Sc.: plant nutrition.	2
H. J. Rodda, Ph.D., M.Sc., A.A.C.I.: organic chemistry. R. M. Smith, B.Sc.: chemical analyses.	24 24
R. E. Underdown, A.S.A.S.M.: gas analyses.	24
R. A. Weller, B.Sc., A.A.C.I.: chemical analyses.	-24
5. Division of Soils	
Waite Agricultural Research Institute, Adelaide, South Australia. (Tel.: UA 1191).	
J. K. Taylor, B.A., M.Sc., B.Sc.Agr., Chief: land utilisation; irrigation; pedology.	1, 2
Soil Survey and Pedology Section	
C. G. Stephens, M.Sc., Principal Research Officer: pedology; soil erosion.	2
G. D. Hubble, B.Ag.Sc., Senior Research Officer, Brisbane, Oueensland.	2

	R. Smith, B.Sc.Agr., Senior Research Officer, Perth, Western Australia.	Subject 2
	B. E. Butler, B.Sc.Agr., Senior Research Officer, Deniliquin, N.S.W. R. G. Downes, M.Ag.Sc., Senior Research Officer, Canberra, A.C.T. E. J. Johnston, B.Sc.Agr., Research Officer. R. Brewer, B.Sc., Research Officer. K. D. Nicolls, B.Sc., B.Ag.Sc., Research Officer. K. H. Northcote, B.Ag.Sc., Research Officer. G. A. Stewart, B.Ag.Sc., Research Officer. G. Blackburn, B.Ag.Sc., Research Officer. T. Langford-Smith, M.Sc., Research Officer (Seconded) J. H. Sleeman, B.A.Sc., Research Officer. E. W. Boehm, B.S.Agr., Research Officer. W. I. Nankivell, B.Ag.Sc., Research Officer. G. M. Dimmock, B.Sc., Research Officer.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
30	OIL CHEMISTRY SECTION	2 24
	C. S. Piper, D.Sc., Senior Chemist. A. C. Oertel, M.Sc., Research Officer. H. C. T. Stace, B.Sc., Research Officer. B. M. Tucker, B.Sc., Research Officer. J. T. Hutton, B.Sc., Research Officer. R. S. Beckwith, B.Sc., Research Officer. A. E. Martin, B.Sc. (Reading), F.R.I.C., Research Officer. A. G. Turton, B.Sc., Research Officer. R. E. Shapter, Research Officer.	2, 24 2, 24 2, 24 2, 24 2, 24 2, 24 2, 24 5, 24
S	DIL PHYSICS AND MECHANICS SECTION	
	T. J. Marshall, M.Ag.Sc., Ph.D., Principal Research Officer. G. D. Aitchison, B.E., Research Officer: soil mechanics. G. B. Stirk, B.Sc., Research Officer. J. P. Quirk, B.Sc.Agr., Research Officer. C. G. Gurr, B.Sc., Research Officer. K. Norrish, B.Sc., Research Officer: X-ray investigations	2 2 2 2 2 2 2
S	OIL MICROBIOLOGY SECTION	
	Miss M. P. Thomas, Ms.D., Research Officer. J. R. Harris, B.Sc., Research Officer.	2 2
0	Waite Agricultural Research Institute, Adelaide, South Australia. J. C. M. Fornachon, B.Ag.Sc., M.Sc., Senior Research Officer. W. K. Joklik, B.Sc., Research Officer.	22 22
6	. (a) Commonwealth Research Station Merbein, Victoria. (Irrigation and Viticulture). (Tel. Merbein 86 A. V. Lyon, M.Agr.Sc., Officer in Charge, Senior Principal Research). 1, 2, 9
	Officer: irrigation; soil reclamation; viticulture. E. C. Orton, B.Sc., A.I.B., Principal Research Officer: dried fruit processing; preservation and transport; minor element in-	2, 30
	productions , productions	

J. G. Baldwin, B.Agr.Sc., B.Sc., Senior Research Officer: soil chem-	Subject 2
istry; soil survey.	00
G. V. F. Clewett, B.E., Research Officer: irrigation engineering. W. J. Webster, B.Sc., Research Officer: vine growth studies; weed control; entomology.	28 9, 12, 19
S. F. Bridley, B.Agr.Sc., Research Officer: irrigation soil physics. A. J. Antcliff, B.Sc., Research Officer: vine growth studies; plant	2 3, 9
physiology. M. R. Sauer, B.Sc.Agr., Research Officer: citrus growth studies;	2, 9
mineral deficiencies of horticultural plants. D. M. Alexander, B.Sc., Research Officer: nitrogen status of soils under irrigation.	2
R. C. Woodham, B.Agr.Sc., Research Officer: injurious salts in irrigated soils.	2
(b) Irrigation Research Station	
Griffith, New South Wales. (Tel.: Nos. Hanwood, 7, 16, 124, 126).	
E. S. West, M.Sc., Senior Principal Research Officer, Officer in Charge: soil and irrigation investigations.	1
N. G. Cassidy, M.Sc., A.A.C.I., Senior Research Officer: soil chemistry.	2
R. F. Williams, M.Sc., Senior Research Officer: plant physiology.	3
C. T. Gates, B.Sc. (Hons.), Research Officer: plant physiology. O. Perkman, B.Sc.Agr., Research Officer: irrigation.	3 2 2
V. J. Wagner, B.Ag.Sc., Research Officer: drainage.	2
K. Spencer, B.Sc.Agr., Research Officer: vegetable agronomy.	2
E. L. Greacen, B.Sc.Agr., Research Officer: soil physics.	2
H. J. Frith, B.Sc.Agr., Research Officer: horticulture. L. F. Myers, B.Agr.Sc., Research Officer: weeds (an officer of	9
C.S.I.R.O. Division of Plant Industry).	12 12
(c) Dairy Products Research Station	
Lorimer Street, Fishermen's Bend, S.C.8., Victoria. (Tel.: MX 52	251).
G. Loftus Hills, B.Agr.Sc., Officer in Charge.	1, 24
E. G. Pont, M.Sc. (Agr.), Senior Research Officer. J. Conochie, B.Sc. (Agr.), Research Officer.	22, 24
A. J. Lawrence, B.Sc., Research Officer.	24 24
D. A. Forss, M.Sc., Research Officer.	24, 25
. Division of Forest Products	
Yarra Bank Road, South Melbourne, S.C.4., Victoria. (Tel.: M.X.5831).	
S. A. Clarke, B.E., Chief of Division.	1, 11
C. S. Elliot, B.Sc., Assistant to Chief of Division.	11
*K. L. Cooper, M.A., B.Sc. (Oxon.), B.Sc. (W.A.)	
J. D. Boyd, M.C.E. N. H. Kloot, B.Sc.	11
R. G. Pearson, B.C.E.	
*R. S. T. Kingston, B.Sc., B.E.	
L. N. Clarke, B.Eng.Sc. timber physics.	11
Miss K F Kolony D Co	7.7

*N. Tamblyn, M.Sc. (Agric).	Subject
G. W. Tack, B.Ag.Sc. \timber preservation	11
G. N. Christensen, B.Sc.	
E. W. B. Da Costa, M.Agr.Sc.) *G. W. Wright, B.E.	
J. W. Gottstein, B.Sc. timber seasoning	11
C. V. Lansell, B.Eng.Sc.	11
E. L. Ellwood, B.Sc. (For.)	
*R. F. Turnbull, B.E.	
C. E. Dixon, M.Sc. C. H. Hebbelthwaite, Dip.For. (Canberra)	11
A. E. Head, B.Sc.	
*A. Gordon, B.Sc.	
H. G. Higgins, B.Sc. veneer and gluing	11
K. F. Plomley, B.Agr.Sc.	
*W. E. Cohen, D.Sc. D. E. Bland, M.Sc.	
A. J. Watson, A.M.T.C. wood chemistry; pulp and paper	11
Miss C. M. Emery, B.Sc.	
C. M. Stewart, B.Sc.	
D. H. Foster, M.Sc. *H. E. Dadswell, D.Sc., Asst. to Chief of Division	
H. D. Ingle, B.For.Sc.	
Miss M. M. Chattaway, B.A., B.Sc., D.Phil. wood structure	11
A. B. Wardrop, M.Sc., Ph.D.	
I. J. W. Bisset, B.Sc.	
G. L. Amos, M.Sc.	
. Division of Food Preservation and Transport	
Abattoir, Homebush Bay, Sydney, N.S.W. (Private Bag,	
Homebush P.O., N.S.W.). (Tel.: UM 8431, UM 6782).	1 20
J. R. Vickery, M.Sc., Ph.D., Chief of Division: handling and storage of eggs.	1, 30
N. E. Holmes, B.E.E., M.Mech.E., Senior Research Officer (in	30
London); refrigerated transport.	
E. W. Hicks, B.A., B.Sc., Principal Research Officer: physical	30
problems of storage. M. C. Taylor, M.Sc., Research Officer: physical problems of	30
storage.	50
G. M. Rostos, B.E. (Karlsruhe), Research Officer: engineering	30
problems of processing and storage.	20
A. R. Riddle, B.A., M.Sc., Senior Research Officer (in Brisbane):	30
storage of meat. F. E. Huelin, B.Sc., Ph.D., Senior Research Officer: chemistry of	5, 30
changes in fruit and vegetables during processing and storage.	
H. A. McKenzie, M.Sc., Research Officer: physical chemistry of	24, 30
food preservation.	24, 30
Adrienne R. Thompson, M.Sc., Research Officer: problems of organic chemistry of stored fruit.	4T, 30
organic enemistry of stored fruit.	

^{*} Officer in Charge of sectional investigations.

COMMON WEALTH OF AUSTRALIA	
	Subje s
R. N. Robertson, B.Sc., Ph.D., Principal Research Officer: physiological problems of storage of fresh fruit and vegetables.	3, 30
E. G. Hall, B.Sc.Agr., Research Officer: storage of fresh fruit and vegetables.	30
J. F. Turner, M.Sc., Research Officer: biochemical problems of fruit storage.	25, 30
W. J. Scott, B.Agr.Sc., Principal Research Officer: general bacteriology of foods.	30
M. R. J. Salton, B.Sc. Agr., Research Officer: bacteriology of foods.	30
L. J. Lynch, B.Sc.Agr., Principal Research Officer: canning of fruit and vegetables.	30
R. S. Mitchell, M.Agr.Sc., Research Officer: canning of fruit and vegetables.	30
J. F. Kefford, M.Sc., Research Officer: chemistry of fruit products.	24, 30
B. V. Chandler, B.Sc., Research Officer: chemistry of fruit products	24, 30
W. A. Empey, B.V.Sc., Senior Research Officer: preservation of fish.	30
Thelma M. Reynolds, M.Sc., D.Phil., Senior Research Officer: dehydrated fruit and vegetables.	24, 30
A. Howard, M.Sc., Senior Research Officer: dehydrated foods.	30
H. S. McKee, B.A., D.Phil., Research Officer: plant physiology.	3, 30
D. McG. McBean, B.Sc., Research Officer: processing and storage of dehydrated fruit and vegetables.	30
J. Shipton, B.Agr.Sc., Research Officer: processing and storage of dehydrated fruit and vegetables.	30
A. R. Prater, B.Agr.Sc., Research Officer: processing and storage of dehydrated meat.	30
W. G. Murrell, B.Agr.Sc., Research Officer: bacteriology of foods.	30
B. T. Overell, M.Sc., Research Officer: mycology of foods.	20, 30
Marjorie J. Wilkins, B.Sc., Research Officer: plant physiology.	3, 30
Judith A. Fraser, B.Sc., Research Officer: plant physiology.	3, 30
A. D. Brown, B.Sc., Research Officer: bacteriology of foods.	30
B.—DEPARTMENT OF THE INTERIOR	
Forestry and Timber Bureau	

Forestry and Timber Bureau

forestry and Timber Bureau	
Canberra, A.C.T. (Tel.: F.433)	
G. J. Rodger, B.Sc. (For.), Director General (Present Location—	1
Melbourne, Tel.: MB.1741)	
M. R. Jacobs, M.Sc., Dr.Ing., Ph.D., Dip.For., Principal, Australian	3, 10
Forestry School, Canberra.	
C. E. Carter, B.Agr.Sc., M.F., Dip.Ed., Senior Lecturer, Australian	3
Forestry School.	
A. D. Helms, M.D., F.F. (Copenhagen), Lecturer, Australian	10
Forestry School.	
K. P. McGrath, Dip.For., Lecturer, Australian Forestry School.	11
Mrs. F. E. Calvert, M.A., Dip.Ed., Consultant Biometrician and	29
Tecturer	

J. M. Fielding, B.Sc., Dip.For., Research Officer. C. D. Hamilton, B.Sc., Dip.For., Research Officer.

3, 4, 10

M. R. O. Millett, B.A., Research Officer. D. I. Nicholson, B.Sc. (For.), Dip.For., Research Officer.	Subject 26 4
H. R. Gray, M.A., Dip.For. (Oxon.), M.Sc., Officer in Charge, Division of Imports, Exports, Statistics and Programming (Present Location—Melbourne)	11, 27
D. A. N. Cromer, M.Sc., Dip.For., Officer in Charge, Division of Forest Resources and Timber Production (Present Location—Sydney, Tel.: B.0531).	1, 10, 11
N. Hall, B.Sc. (For.), Senior Technical Officer, Division of Forest Resources and Timber Production.	10, 11
C. K. Pawsey, Dip.For., Research Officer (Located at Mt. Burr, South Australia.	10
P. J. Bowling, B.For., Dip.For., Research Officer (Located at Launceston, Tasmania).	10

C.—COMMONWEALTH DEPARTMENT OF HEALTH

1. At Canberra A.C.T. (Tel.: 596).

(a) Division of Plant Quarantine

T. H. J. Harrison, D.Sc.Agr., D.I.C., Director.

In all States there is a Chief Quarantine Officer (Plants) who is an officer of the Department of Agriculture.

(b) Division of Veterinary Hygiene (Animal Quarantine)

R. N. Wardle, B.V.Sc., Director.

K. S. McIntosh, B.V.Sc., H.D.A., Assistant Director.

H. R. Seddon, D.V.Sc., Research Veterinarian.

H. R. Peisley, B.V.Sc., Veterinary Officer.

In all States the principal Veterinary Officer is the Chief Quarantine Officer (Animals).

2. At Commonwealth Serum Laboratories

Parkville N.2. Victoria. (Tel.: F.W.2101)

D. T. Oxer, D.V.Sc., Senior Veterinary Research Officer.

P. L. Bazeley, B.V.Sc., Veterinary Research Officer.

D.—DEPARTMENT OF COMMERCE AND AGRICULTURE

Canberra, A.C.T. (Tel.: 587).

. Division of Agricultural Production	
F. W. Bulcock, Director General of Agriculture.	1
W. C. Duggan, B.Sc.Agr., Supervisor, Agricultural Production	2, 7
Section.	
A. G. Edmonds, B.Agr.Sc., Agricultural Officer (Administration).	26, 29
P. T. Mitchell, B.Agr.Sc., Agricultural Officer: fertilisers, chemicals.	2, 24
K. Ewart, B.Com., Officer in Charge, Farm Mechanisation Branch.	28
W. G. Laffan, H.D.D., Investigation Officer: animal production	17
(dairying).	
G. J. Harvey, B.Sc., B.Sc. Agr., Investigation Officer: horticulture.	3, 9

COMMONWEALTH OF AUSTRALIA	Subject
2. Fruit and Vegetable Export W. M. Carne, Supervisor, Fresh Fruit and Vegetable Exports: ex-	9, 30
port problems. W. J. Bettenay, B.Sc. (Agric.), Fruit Inspector and Research Officer	: 9, 30
export problems. J. C. Walsh, B.Agr.Sc., Fruit Inspector and Research Officer: export problems.	9, 30
3. Bureau of Agricultural Economics	
(Tel.: 501). J. G. Crawford, M.Ec., Director. T. H. Strong, M.Sc. (Agr.) G. P. Phillips, B.Sc. (Agr.) F. O. Grogan, B.A., M.Sc.Agr. W. D. Hardy, B.Sc. (Agr.) P. A. Reid, M.Agr.Sc. J. N. Lewis, B.Ec. A. C. B. Maiden, B.A. H. C. Clark, B.A. J. H. Kelly, R. A. Sherwin, B.Agr.Sc. K. M. Fraser, M.Agr.Sc. R. B. McMillan, B.Com. E. A. Saxon, B.Com. E. S. Hoffman, B.Agr.Sc. L. White, B.A. I. MacFarlane, B.Sc. (Agr.). G. M. Percival, B.A., B.Com. W. D. N. Johnson, B.Com. B. Fernon, B.Ec.	1, 27 27 27 27 27 27 27 27 27 27 27 27 27 2
E.—DEPARTMENT OF EXTERNAL TERRITORIES Territory of Papua—New Guinea.	
Department of Agriculture, Stock and Fisheries Port Moresby. (Tel.: Moresby 109) W. Cottrell-Dormer, M.Sc.Ag., Director of Agriculture. R. E. P. Dwyer, B.Sc.Ag., H.D.A., H.D.D., Assistant Director.	1 1
 Division of Agricultural Extension C. C. Marr, H.D.A., Acting Chief of Division. W. L. Conroy, B.Sc.Ag., Agricultural Officer, Madang. L. A. Bridgland, B.Sc.Ag., D.T.A. (Trinidad), Agricultural Officer, Port Moresby. G. K. Graham, B.Sc.Ag., Student at Trinidad. R. S. Carne, B.Sc.Ag., Overseas Student. 	, 2, 4, 6, 7, 9
Miss M. P. Eggleston, B.Sc.Ag., Agricultural Officer, Port Moresby. J. R. Vicary, D.D.A., Agricultural Officer, Port Moresby. G. D. Mills, B.Sc.Ag., Agricultural Officer, Port Moresby. T. Sorenson, B.Sc.Ag., Agricultural Officer, Port Moresby. J. C. Lamrock, B.Sc.Ag., Agricultural Officer, Mekco. E. Henty, B.Sc.Ag., Agricultural Officer, Lae.	2, 4, 6, 7, 9 2, 4, 6, 7, 9 27, 20 2, 4, 6, 7, 9 2, 4, 6, 7 2, 4, 6, 7, 9

Divi ion of Animal Industry	Subject
W. Granger, B.V.Sc., Chief of Division.	1
J. Marley, B.V.Sc., Animal Husbandry Officer.	14, 15, 16, 17
Miss O. MacPherson, B.V.Sc., Parasitologist.	21, 22
Division of Plant Industry	
F. C. Henderson, B.Sc.Ag., Economic Botanist, Lowlands Agricu	<i>l</i> - 4
tural Experiment Station, Keravat, New Britain.	
A. J. Schindler, B.Sc.Ag., Q.D.D., Manager, Highlands Expermental Station, Aiyura via Lae.	<i>i</i> - 1, 4
G. S. Dun, B.Sc.Ag., Entomologist, Keravat.	19
I. F. de la Lande, M.Sc., Biochemist C/o University of Melbourne.	25
I. J. O'Donnell, M.Sc., Chemist, Aiyura via Lae.	2, 5
W. J. Hughes, Agricultural Officer, District Agricultural Station, Bubia via Lae.	1, 4 1, 4
Department of Forests	ŕ
Port Moresby.	
J. B. McAdam, M.M., Dip.For. (Canberra), Director.	1
J. S. Womersley, B.Sc., Forest Botanist, Lae.	3
W. A. Heather, B.Sc., Dip.For. (Canberra), Forest Officer, Kerava	at 11
via Rabaul, New Britain.	
NEW SOUTH WALES	
DEPARTMENT OF AGRICULTURE	
Box 36, G.P.O., Sydney, (Tel.: B.056).	
R. J. Noble, Ph.D., M.Sc., B.Sc.Agr., Under Secretary and Director	r. 1
H. J. Hynes, M.Sc., D.Sc.Agr., Assistant Director of Agriculture.	1
F. C. McCleery, B.Sc.Agr., Biometrician.	29
Division of Science Services	
iology	
(Tel.: B.056., Extensions, 2165, 2914).	
C. J. P. Magee, M.Sc., D.Sc.Agr., <i>Chief Biologist</i> : plant disease especially virus diseases of tropical plants.	s 6
W. S. Sutton, B.Sc.Agr., Senior Biologist: diseases of tomatoes	6, 22
dairy bacteriology.	
R. D. Wilson, M.Sc., M.Sc.Agr., <i>Plant Pathologist</i> : bean diseases vegetable diseases.	s, 6
Lilian R. Fraser, D.Sc., Plant Pathologist: diseases of citrus frui	t 6
and of ornamental plants.	
T. B. Kiely, D.Sc.Agr., Plant Pathologist: diseases of citrus fruit	6
F. C. Butler, B.Sc.Agr., Assistant Plant Pathologist: diseases o	
cereals and field crops.	C
K. E. Hutton, B.Sc.Agr., Assistant Plant Pathologist: diseases o	f 6
pome and stone fruits. R. J. Conroy, B.Sc.Agr., Assistant Plant Pathologist: diseases o	f 6
vegetables.	1

	Subject
J. R. Morschel, B.Sc.Agr., Assistant Plant Pathologist: diseases of	6
stone and pome fruits.	22
H. H. Randell, Bacteriologist: bacteriology of dairy products.	22
D. Corbett, B.Sc.Agr., Assistant Bacteriologist: soils.	. Lander
Entomology	
(Tel.: B.056, Extension 2226).	
T. McCarthy, Chief Entomologist.	19
S. L. Allman, M.Sc., B.Sc.Agr., Senior Entomologist.	19
W. L. Morgan, B.Sc.Agr., Entomologist.	19
P. C. Hely, B.Sc.Agr., Entomologist.	19
E. H. Zeck, Entomologist.	19
E. J. Wason, B.Sc.Agr., Entomologist.	19
C. R. Wallace, B.Sc.Agr., Entomologist.	19
N. C. Lloyd, B.Sc.Agr., Entomologist.	19
G. Pasfield, B.Sc.Agr., Entomologist.	19
A. H. Friend, B.Sc.Agr., Entomologist.	19
G. J. Shanahan, B.Sc.Agr., Entomologist.	19
C. E. Chadwick, B.Sc.Agr., Entomologist.	19
J. G. Gellatley, B.Sc.Agr., Assistant Entomologist.	19 19
B. M. Braithwaite, B.Sc.Agr., Assistant Entomologist.	19
Agricultural Chemistry	
(Tel.: B.056, Extension 2166).	
A. V. Robinson, B.Sc.Agr., Chief Chemist.	24
T. H. Johns, M.Sc., A.A.C.I., Senior Chemist.	24
A. N. Old, B.Sc.Agr., <i>Analyst</i> : waters (irrigation and stock).	24
J. R. Fisher, B.Sc.Agr., Analyst: cereals and cereal products	25
R. H. M. Arnot, B.A., B.Sc.Agr., Analyst: soils, deficiencies.	2
M. F. Redies, M.Sc., A.A.C.I., Analyst: physical chemistry.	24
D. K. O'Neill, A.S.T.C. (Chem.), A.A.C.I., <i>Analyst</i> : insecticides, fungicides, weed killers.	24
K. N. Wynne, B.Sc., Assistant Analyst.	15, 24
A. J. Crawford, B.Sc.Agr., Assistant Analyst.	24
F. W. Cradock, B.Sc.Agr., Assistant Analyst.	2, 24
A. J. Meers, B.Sc.Agr., Assistant Analyst.	24
Botanical	
(Tel.: B.056, Extensions 2561, 2565).	
R. H. Anderson, B.Sc.Agr., Chief Botanist and Curator, Sydney	3, 12
Botanic Gardens and National Herbarium.	
H. K. C. Mair, B.Sc.Agr., Senior Botanist.	3, 12
Miss J. W. Vickery, M.Sc., Botanist.	3, 12
Miss M. D. Tindale, M.Sc., Botanist: Australian Liaison Officer at	3, 12
Royal Botanic Gardens, Kew, 1949-1951.	
L. A. S. Johnson, B.Sc., Assistant Botanist.	3, 12
Miss J. G. Garden, B.Sc. Agr., Assistant Botanist.	3, 12
Miss N. C. Ford, B.Sc., Assistant Botanist.	3 12

Division of Plant Industry	Subject
(Tel.: B.056, Extensions 509, 510).	
W. H. G. Poggendorff, B.Sc.Agr., Chief of Division.	1
H. Wenholz, B.Sc.Agr., Deputy Chief of Division.	4, 7
H. Bartlett, H.D.A., Principal Agronomist (Extension)	7
J. L. Green, H.D.A., Assistant Principal Agronomist (Extension)	7
J. N. Whittet, H.D.A., Principal Agronomist (Pastures).	8
C. K. Vears, B.Sc.Agr., Assistant Principal Agronomist (Pastures).	. 8
S. L. Macindoe, Ph.D., B.Sc.Agr., Principal Agronomist (Research)	4
N. S. Shirlow, B.Sc.Agr., Assistant Principal Agronomist (Research).	
W. D. Kerle, H.D.A., Special Agronomist: maize, sorghum, fodder	•
crops.	·
E. B. Furby, H.D.A., Special Agronomist (Irrigation).	7
G. Nicholson, H.D.A., Special Agronomist (Cereals).	7
W. M. Curteis, B.A., B.Sc.Agr., Special Agronomist: rice; fibre;	7
oil; miscellaneous crops.	·
A. C. Orman, H.D.A., Special Agronomist (Vegetables).	7
T. E. Friend, B.Sc.Agr., Agronomist (Vegetables).	7
A. Pearson, H.D.A., Agronomist: land settlement.	7
K. R. Green, B.Sc.Agr., Agronomist: weeds.	8, 12
A. Johnson, B.Sc.Agr., Agronomist: pastures.	8
L. Judd, H.D.A., Supervisor of Experiment Farms.	28
Miss A. I. Myers, Seeds Officer.	12
N. H. Parbery, D.Sc.Agr., Analyst: floriculture.	2
200 220 2 000 000 000 000 000 000 000 0	
Hawkesbury Agricultural College	
Richmond (Tel.: Richmond 5.)	
E. A. Southee, O.B.E., M.A. (Oxon.), B.Sc.Agr., B.Sc., Principal.	1, 27
H. R. Richardson, B.Sc.Agr., Deputy Principal.	27
A. N. Johnston, B.Sc.Agr., Lecturer in Agricultural Botany and	3, 6, 8, 19
Entomology.	
T. Passlow, B.Sc.Agr., Assistant Lecturer in Agricultural Botany	3, 6, 8, 19
and Entomology.	
W. McCarrol, A.C.T.S.M., A.I.C.A., Lecturer in Agricultural En-	26, 28
gineering.	
J. M. Hodges, A.S.T.C., Lecturer in Agricultural Chemistry and	24
Soil Physics.	24
B. F. Atkins, B.Sc.Agr., Assistant Lecturer in Agricultural Chemistry	, 24
and Soil Physics.	10
J. O. Smith, B.Sc.Agr., Lecturer in Agriculture.	12
J. Meade, B.Sc.Agr., Lecturer in Agricultural and Dairy Bac-	22
teriology.	14 15 17
M. H. Keefer, Q.D.A.H., Lecturer in Cattle Breeding and Manage-	14, 15, 17
ment.	17
J. D. L. McGibbon, H.D.A., H.D.D., Special Dairy Officer.	17
D. I. Gillies, H.D.D., Dairy Officer.	
G. J. Smith, B.Sc.Agr., Dairy Research Officer.	22, 25
C. J. Horth, H.D.A., Fruit Officer: pome; stone and citrus fruit.	9
P. Henry, H.D.A., Fruit Officer: pome; stone and citrus fruit.	_
E. J. Waring, B.Sc.Agr., Agronomist: vegetable breeding and	12
cultivation.	14

TT O W. TTD A committee and field arons	2, 7, 8, 12
H. Suttie, H.D.A.: vegetables and field crops.	12
J. A. Williamson, H.D.A., Supervisor of Farm Operations. D. G. Christie, B.V.Sc., Veterinary Officer.	13, 14, 15, 16
L. M. F. Russell, H.D.A., Livestock Officer (pigs).	18
C. Lawrence, Livestock Officer (poultry).	14, 15, 16
S. J. Wilkins, H.D.A., Livestock Officer (poultry).	14, 15, 16
R. D. Eastoe, H.D.A., Livestock Officer (sheep).	14, 18
H. G. Smith, E.B., S.B.A., Livestock Officer (bees).	14, 15, 17
11. G. Ollitti, 13.13., 5.15.11., 15.000000 Gyroor (0000).	
Wagga Agricultural College and Experiment Station	
Wagga Wagga (Tel.: Wagga 8).	
B. Doman, B.Sc.Agr., Principal.	7.0
G. T. Dawson, H.D.A., Agronomist (Farm Supervisor)	7, 8
J. R. Sutherland, B.Sc.Agr., Lecturer.	3, 6, 19, 22
J. K. Symes, B.Sc.Agr., Agronomist: cereal breeding.	4
C. H. Mort, H.D.A., Fruit Officer: pome and stone fruits.	9
G. L. Edwards, H.D.A., Fruit Officer: pome and stone fruits.	9 g 8
W. J. C. Hudson, B.Sc.Agr., Agronomist: pasture plant breedin	8 0
and pasture management. F. J. Nicholson, H.D.A., Agronomist: cereals.	2, 7
L. J. Ballard, H.D.A., Agronomist: cereals.	2, 7
H. Matthews, H.D.A., H.D.D., Dairy Officer.	17
C. R. Graham, H.D.A., Livestock Officer (pigs).	18
G. W. Smith, Livestock Officer (poultry).	18
H. M. Greaves, H.D.A., Livestock Officer (poultry).	18
N. W. Bennett, H.D.A., Livestock Officer (sheep and wool).	18
D. A. Taylor, H.D.A., Livestock Officer (sheep and wool).	18
j , , , , , , , , , , , , , , , , , , ,	
Experiment Farms	
BATHURST. (Tel.: Bathurst 179).	
F. F. Filan, B.Sc.Agr., Manager.	1
B. F. Regan, B.Sc.Agr., Agronomist: pasture plant breeding.	1
R. Thomson, H.D.A., Agronomist: field crops.	8
H. W. Lea, B.Sc.Agr., Agronomist: tobacco and vegetables.	4
J. A. Holbeche, H.D.A., Fruit Officer: pome and stone fruits.	9
J. F. Johnson, H.D.A., Fruit Officer: pome and stone fruits.	9.
o o , , , , , , , , , , , , , , , , , ,	
CONDOBOLIN (Tel.: Condobolin 81).	
R. J. Hobson, Acting Manager.	1
R. W. Fitzsimmons, B.Sc.Agr., Agronomist: cereals.	7
D. J. McFarlane, B.Sc.Agr., Agronomist: pastures.	8
Cowra. (Tel.: Cowra 347).	
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II IV Factored U.D.A. Special Fruit Officer: tropical fruits	9

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search): genetics.	
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J. V. McGrath, Fruit Officer: pome and stone fruits.	9
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J. W. Turpin, Q.D.A., Fruit Officer (Research): processing and storage of citrus fruits.	9
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L. A. Scott, H.D.A., Fruit Officer: citrus; pome and stone fruits under irrigation.	9
J. M. Sidlow, B.Sc.Agr., Fruit Officer (Research): irrigation.	9
Miss M. I. Parlby, Fruit Preserving Instructor.	30
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A. B. Shelton, Special Dairy Officer: dairy products other than butter.	17
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quin. (Tel. Deniliquin 68).	
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machinery.	11, 28
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C. Kemp: utilisation.	11
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E. R. Fogl, B.Sc.Agr.: seasoning and preservation.	11
W. J. Stephens, A.S.T.C.: seasoning and preservation.	11, 24
P. Demeduik, Dip.Eng. (Vienna): seasoning and preservation.	11, 28

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	4, 6, 7, 8
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genetics. H. N. Robertson, Ph.D., Acting Lecturer in Botany: plant phys-	3
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Bacteriology: Pasteurella infection in domestic animals.	
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Physiology: intravaginal assays of oestrogens, the oestrogenic	
activity of subterranean clover, circulation of the uterus.	
A. W. Blackshaw, B.V.Sc., Research Assistant in Veterinary	13
Physiology: preservation and metabolism of mammalian sper-	
matozoa.	
D. C. Blood, B.V.Sc., Lecturer in Veterinary Medicine: metabolic	16
diseases of dairy cattle.	
H. R. Carne, D.V.Sc., Professor of Veterinary Pathology and Bac-	16
teriology: infectious pustular dermatitis of sheep, caseous	16
lymphadenitis of sheep, heritable epithelioma in sheep.	
C. W. Emmens, D.Sc., Ph.D., Veterinary Physiology: preservation	13
and metabolism of mammalian spermatozoa, relation of sex	10
hormones to mammalian sterility.	
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Genetics: genetic surveys of domestic animals.	11
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feeding and management of dairy cattle, calf rearing on low milk	15
diets.	
R. M. C. Gunn, D.V.Sc., B.Sc.Agr., B.Sc., M.R.C.V.S., Professor of	14
Veterinary Science: fertility in the ram.	1.1
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in the ram.	14
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cardiography in domestic animals, hepatitis of dietary origin in	15, 15, 10
sheep	
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culation in the liver of the sheep.	13
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bolism of spermatozoa, biochemistry of twin cattle.	13
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teriology: virus encephalitis in dogs.	16
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Bacteriology: infectious pustular dermatitis in sheep, virus	16
encephalitis in dogs.	16
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chemistry; oxidative metabolism of solanum tuberosum.	

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Subject 25

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J. A. Roberts, B.Agr.Sc., Agricultural Research Officer.	7
J. 11. 1000 10, D. 15 1000, 116 1000 100 1000 1000 1000 1000	

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L. A. Downey, Pig Expert.	14, 15, 17
P. Wade, B.Sc., Science Field Officer.	14, 15, 17
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vision fire protection research.	10
G. Weste, A.M.I.R.E. (Aust.), Communications Officer: applica-	10, 28
tion of radio to fire protection.	4.0
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C. J. Irvine, B.Sc., Forest Entomologist and Research Officer: con-	10, 19, 20
trol of insects and wood-rotting fungi.	20
Kathleen Smith, B.Sc.: identification and production of wood rots in the laboratory; decay in <i>Eucalyptus regnans</i> .	20
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L. L. Muller, B.Sc., Assistant Dairy Bacteriologist.	22
L. G. Amos, B.Sc., Analyst.	24
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P. McCallum, Senior Adviser, Rockhampton.	
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D. F. Keith, Grading Inspector (Butter and Cheese).	17
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utilisation. K. V. Cokley, B.Sc., Investigations Officer: wood chemistry and	11	
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bandry.	11, 13, 10
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R. J. Green, B.V.Sc., Senior Veterinary Officer: epidemiology and nutrition.	15
J. A. Dumaresq, B.V.Sc., Veterinary Pathologist: general laboratory investigations, nutrition and bacteriology.	16, 22

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H. V. Rees, B.Sc.Agr., <i>Dairy Bacteriologist</i> : bacteriological control and research on dairy produce.	14
HORTICULTURAL DIVISION	
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T. D. Raphael, Dip.Hort. (Cantab.), M.A.: berry fruits, apples, peas and vegetable seeds.	6, 9
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Agronomy Division	
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A. H. Woodforde, F.L.S., Senior Seed Analyst: wheat breeding. J. C. Tilt, Agronomist: cereals.	4, 12
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Plant Pathology Division	
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J. V. Evans, B.V.Sc.: experimental pathology.	16
D. B. Filmer, B.Sc.: parasitology; immunity.	21
D. Flannery, B.Sc.: hereditary antigens of cattle.	22
A. B. Grant, B.Sc.: biochemistry; rickets.	15, 25
R. A. Hall, B.Sc.: biochemistry.	25
D. L. Harrison, B.Sc.: biochemistry.	25
N. D. Jamieson, M.Sc.: biochemistry; ketosis.	15, 25
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I. G. McIntosh, B.Sc.: toxicology.	24, 25
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C. S. W. Reid, M.Sc.: physiology; photosensitivity.	22
R. M. Salisbury, B.V.Sc.: diagnostic bacteriology.	13 22
G. C. Salisbury, B.Sc.: bacteriology	. 22
J. F. Scaife, M.Sc.: biochemistry; trace elements.	25
J. B. Swan, B.V.Sc.: metabolic diseases.	13, 15
L. K. Whitten, B.V.Sc.: parasitology.	19, 21
E. W. Wright, M.Sc.: biochemistry; radiochemistry.	25
RUAKURA ANIMAL RESEARCH STATION, Hamilton. (Tel.: 4790, 4791, 4792.)	
C. P. McMeekan, Ph.D. (Cantab), B.Agr.Sc., Superintendent. 1, 13,	14 15 17
J. M. Baird, B.Sc.: mastitis.	16
M. P. Bartrum, M.Sc.: pasture digestibility.	24, 25
E. G. Bassett, M.Agr.Sc.: animal reproduction.	13, 14
N. Bindon, B.Sc., pasture digestibility.	24
W. H. Bishop, M.R.C.V.S.: general.	10, 18
N. T. Clare, M.Sc.: photosensitivity division.	24, 25
M. R. Coup, B.Sc.: pasture digestibility.	15, 24
T. M. Docker, M.R.C.V.S., B.Sc. (Vet.): sterility-trick.	10, 23
J. J. Hancock, M.Agr.Sc.: animal genetics—Monozygotic twins	13 14 17

	Subject
J. P. James, M.R.C.V.S., B.Sc. (Vet.): animal fertility.	13, 14, 15
R. J. Lancaster, M.Sc.: pasture digestibility.	15, 24
D. S. Leatham: photosensitivity.	25
J. D. W. Monigatti, M.Sc.: chemistry of pastures. S. J. Patterson, M.Sc.: pasture digestibility.	24
J. C. Percival, B.Agr.Sc.: animal nutrition—cattle.	24
D. S. M. Phillips, M.Sc.: milking machines, etc.	15, 18
R. W. Roach, M.R.C.V.S., B.Sc. (Vet.): mastitis.	13, 28
O. K. Sewell, M.Sc.: chemistry of pastures.	16, 22
	13, 14, 15
S. K. Stephenson, B.Sc.: reproductive physiology.	13, 14, 13
D. E. K. Walker, M.Agr.Sc.: growth and development of farm	
animals.	17
C. Wallace, Ph.D. (Cantab), M.A. (Oxon.): reproductive physiology	
	, 14, 15, 17
N. M. Wallace, B.Sc.	13, 17
E. P. White, M.Sc.: organic chemistry.	24, 25
W. G. Whittleston, M.Sc., A.R.I.C.: milk secretion and milking	
machines.	, , , , , , , ,
E. A. Clark, B.Agr.Sc.: sheep husbandry.	14, 15, 18
J. C. Gerring, B.V.Sc.: general pathology.	16
D. D. Perrin, Ph.D., M.Sc.: biochemistry.	24, 25
H. A. Foy, Director: organisation generally. DAIRY LABORATORY, WALLACEVILLE, WELLINGTON. (Tel: 21) Upper Hutt. G. M. Moir, Ph.D., M.Sc., F.R.I.C., Dairy Chemist. C. F. Denmead, B.Sc., Chemist. F. Bishop, Assistant Chemist. DAIRY PRODUCE GRADING STORE, KING'S WHARF, Auckland. (Tel.: 42-387). A. G. Frieberg, M.Sc., A.R.I.C., Chemistry and Bacteriology of Chemist. G. C. de Ath, M.Sc., Chemist. Water Supplies.	22, 25
Extension Division WELLINGTON	1
P. W. Smallfield, M.Agr.Sc., Director: organisation generally.	. 1
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otroins of goods: good and gron production	,,
strains of seeds; seed and crop production. S. H. Saxby, Dip.Agr. (Lincoln), Agrostologist: grassland in-	2, 3, 8
	, , , ,
vestigation. P. B. Lynch, M.Agr.Sc., Field Crop Experimentalist: field experiments with pastures and crops.	2, 7, 8, 12
ments with pastures and crops.	

	Culian
J. A. S. Miller, B.Agr.Sc., Instructor in Agriculture: types and	Subject 12
strains of seeds; seed certification. K. Cottier, B.Agr.Sc., Assistant Crop Experimentalist: field ex-2,	7, 8, 12
periments with pastures and crops. O. G. Moore, Dip.Agr. (Lincoln), Fields Instructor: types and	12
strains of seeds; seed production. E. M. Ojala, M.Agr.Sc., Ph.D., B.A., Rural Economist: agricultural economics and farm management.	27
L. W. Woods, M.A., Assistant Rural Economist: agricultural economics and farm management.	27
R. H. Scott, B.Com., Land Utilization Officer: land utilization. W. N. Paton, Senior Investigational Officer: management and costing.	27 29
D. A. Viggers, B.Com., M.S. (U.S.A.), Rural Sociologist: rural sociology.	
J. V. White, B.A., Field Economist: management and costing. Miss J. G. Miller, M.A., Research Statistician: statistics. H. W. T. Eggers, A.M.I.E.E., Engineer.	29 29 28
Miss M. Sutherland, B.Sc., Farm Forestry Officer: farm plantations.	10
A. A. Ross, M.A., Investigating Officer: economics. Miss H. M. Stevens, B.Sc., Assistant Farm Forestry Officer: farm plantations.	27 10
A. V. Lithgow, Officer-in-Charge, Seed Testing Station: testing of	12
seeds for purity and germination. C. J. Hamblyn, B.Agr., Fields Superintendent: organisation	1
generally. C. Walker, H.D.A., Assistant Fields Superintendent: organisation	1
generally. P. D. Harkness, B.Agr.Sc., Assistant Seed Research Officer: test-	12
ing of seeds for purity and germination. Miss M. E. H. Cowen, B.Agr.Sc., Seed Research Officer: testing of seeds for purity and germination.	12
E. M. Fraser, B.Sc., Assistant Seed Botanist: testing of seeds for purity and germination; seed botany.	12
J. E. Bell, Dip.Agr. (Lincoln), Fields Superintendent: organisation	1
generally. E. B. Glanville, Dip.Agr. (Lincoln), Assistant Fields Superintendent: organisation generally.	1
J. M. Miller, B.A., Field Economist: management and costing.	29
HAMILTON	
K. W. Todd, Field Economist: management and costing.	20
C. C. Leitch, Dip.Agr. (Lincoln), Assistant Fields Superintendent:	1
organisation generally.	1
J. G. Crosbie, B.Agr.Sc., Assistant Machinery Officer: implement testing.	28

T	Subject
A. G. Elliott, Fields Superintendent: organisation generally.	1
A. Stuart, B.Sc., Assistant Fields Superintendent: organisation	1
generally.	077
A. H. Mouat, B.Com., Assistant Investigating Officer: economics. J. O. Wallace, Seed Production Officer: production of Brassica	27 7, 12
seeds.	
TIMARU W. C. Stafford, Dip.Agr. (Lincoln), Irrigation Officer: irrigation.	28
7 1 0 (7, 8)	
Soil Fertility Research Station, Hamilton.	
R. E. R. Grimmett, M.Sc., Superintendent: soils and fertilizers.	1
I. L. Elliott, B.Agr.Sc., Assistant Superintendent: soils and fertilizers.	1
D. F. Waters, M.Sc., Senior Agricultural Chemist: soils and fertilizers	s. 2
E. B. Davies, M.Sc., A.R.I.C., Ph.D., Agricultural Chemist: soils and fertilizers.	2
K. J. McNaught, M.Sc., Agricultural Chemist: soils and fertilizers.	2
F. B. Thompson, M.Sc., Agricultural Chemist: soils and fertilizers.	2
K. F. Hoy, B.Sc., Agricultural Chemist: fertilizers.	$\overline{2}$
R. K. Ward, B.Sc., Agricultural Chemist: weed control.	12
J. L. Grigg, M.Sc., Agricultural Chemist: soils and fertilizers.	2
R. E. Rose, M.Agr.Sc., Microbiologist: soils.	2, 12
J. E. Allan, B.Sc., Chemist: soils and fertilizers.	2
R. W. Bailey, M.Sc., Chemist: soils and fertilizers.	2
F. D. Dorofaeffe, B.Sc., Chemist: soils and fertilizers.	2
D. E. Hogg, B.Sc., Chemist: soils and fertilizers.	2 2
R. H. Jackman, B.Sc., Chemist: soils and fertilizers.	2
P. F. Noble, B.Sc., Research Officer: soils.	2
R. L. Neilson, B.Sc., Soil Biologist: soils.	4
lorticulture Division	
WELLINGTON A M. C. D. C. N. D. H. (N. Z.) Directors argonization of	1260
A. M. W. Greig, B.Sc., N.D.H. (N.Z.), Director: organisation of horticultural work generally.	1, 2, 6, 9
W. T. Goodwin, N.D.H. (N.Z.), Assistant Director: organisation	1, 2, 6, 9
of horticultural work generally.	2, 6, 9
G. A. H. Helson, M.Sc., Horticulturalist: small fruits; nursery;	21, 0, 5
flower and general horticulture. A. R. Grainger, <i>Principal Horticultural Inspector</i> : fruit and vege-	6, 9
table standards.	20.00
A. A. Powell, Cool Storage Officer: cold storage and refrigerated	28, 30
transport of fruit.	
AUCKLAND Our large (Passworthy) Viticaltunist:	2, 9
F. Berry Smith, Dip. in Oenology (Roseworthy), Viticulturist:	24, 9
viticulture and wine-making.	
Assistant Viticulturist—Vacant.	
TE KAUWHATA	0
A. W. Saxby, Manager, Horticultural Station, Te Kauwhata: viticulture and wine-making.	9
culture and wine-making.	

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L. W. Tiller, B.Sc., A.N.Z.I.C., Deputy Assistant Secretary (Agri-1, 2 culture and Biology); general administration of agricultural and biological research; land utilisation; agricultural economics.	
K. J. Mitchell, B.Agr.Sc., Scientific Officer: land utilisation; 3 agricultural economics.	8, 8, 27
J. P. Malcolm, B.Agr.Sc.: barley. F. C. Allen, B.Sc. D. E. Yen, M.Agr.Sc.: peas; lucerne. N. L. Shillito, Dip.Agr. and V.F.M. W. G. Priestley, Dip. Hort. I. G. M. Forbes, B.Agr.Sc. M. E. Fairmaid, B.Agr.Sc.: oats. H. W. Findon, Dip.Agr. and V.F.M. J. P. B. Chapple.	1 4, 7 7, 8, 12 7, 8, 22 4, 7 4, 7, 12 9 9 4, 7 7, 12 4
D. Keane. Animal Ecology Section	7, 12
Wellington. K. A. Wodzicki, M.Sc., Ph.D. (Cracow) Officer-in-Charge. P. C. Bull, B.Sc., Zoologist. J. S. Watson, B.A. (Oxon.), Zoologist	
Applied Mathematics Laboratory	
Wellington. I. D. Dick, M.Sc., Officer in Charge. J. H. Darwin, M.Sc.: theoretical problems. P. J. Armstrong, M.Sc.: applied statistics. E. Milne, B.Sc.: computations. R. M. Williams, M.A. (N.Z.), B.A. (Cantab.). E. W. Jones, M.Sc.: large-scale computations. B. I. Hayman, M.Sc.: theoretical problems. P. Whittle, M.Sc.: theoretical problems. †H. R. Thompson, M.Sc.: applied statistics. *G. M. Wright, M.Sc.: applied statistics. W. B. Taylor, M.Sc.: applied statistics.	29 29 29 29 29 29 29 29 29 29

[†] At Plant Diseases Division, Auckland. * At Wheat Research Institute, Lincoln College, Christchurch.

Determ Division	Subject
Botany Division Wellington	
	1 2
A. L. Poole, B.For.Sc., M.Sc., F.L.S., <i>Director</i> : forest ecology. A. J. Healy, M.Ag.Sc., <i>Assistant Director</i> : taxonomy with special reference to the naturalised flora.	1, 3 1, 3
Miss L. B. Moore, M.Sc., F.L.S., F.R.S. (N.Z.), Senior Botanist: ecology of denuded tussock-grassland; marine algae.	3
V. D. Zotov, <i>Botanist</i> : taxonomy (especially of grasses); synecology.	3, 26
J. B. Hair, M.Sc., Cytologist: cytology of Agropyron.	3
W. F. Harris, M.Sc., Botanist: pollen and peat investigations.	3
Miss R. Mason, B.A., M.Sc., Botanist: investigations on seeds and	3
water plants; food habits of game birds. A. P. Druce, B.E., <i>Botanist</i> : vegetation studies with reference to	3
erosion control.	3
H. A. Connor, B.Sc., <i>Botanist</i> : posionous and medicinal plants; grass ecotypes.	3
M. H. Bannister, B.Sc., Botanist: dendrology of exotic forest trees particularly Pinus radiata.	3
T. W. Rawson, B.Sc., Herbarium Keeper: taxonomy.	3
N. T. Moar, B.Sc., Assistant Botanist: pollen and peat investig-	3
Miss H. E. Clark, B.Sc., Assistant Botanist: hay fever pollens.	3
Miss A. P. Barker, M.Sc., Assistant Botanist: ecology of tussock grasslands.	3
I. A. McNeur, Dip.Hort., Technician: plant propagation.	3, 9
Miss N. M. Adams, Technical Assistant: botanical illustrations; marine algae.	3
B. G. Hamlin, <i>Technical Trainee</i> : taxonomy; assistance with herbarium work.	3
Mrs. R. E. Leatham, Librarian.	3
R. R. Briggs, Technician: plot work on experimental area.	3
J. L. Dryden, Technical Assistant: plot work on experimental area.	3
PHORMIUM RESEARCH STATION Moutoa.	
W. R. Boyce, M.Sc., Botanist: Phormium investigations.	3
M. E. Roberts, M.Sc., Assistant Botanist: Phormium investigations.	3
Entomological Research Station	
Nelson	10
D. Miller, Ph.D., M.Sc., F.R.S. (N.Z.), F.R.E.S., F.L.S. (N.S.W.),	19
Director. L. J. Dumbleton, B.Sc. (For.), Senior Entomologist: general	19
problems. B. B. Given, M.Sc., Entomologist: grass—grub parasites.	19
J. M. Kelsey, B.Sc., Entmologist: grass—grub ecology.	19
R. A. Cumber, Ph.D., Entomologist: Phormium entomology.	19
E. S. Gourlay, Entomologist: parasite establishment.	19
P. I. Robertson, M.Sc. Entomologist: stored products insects.	19

	Subject
J. M. Hoy, M.Agr.Sc., Entomologist: grass—grub ecology.	19
A. W. Parrott, Curator of Insect Collections.	19
A. C. Carson, Technical Assistant.	19
A. D. Lowe, Technician.	19
Fruit Research Station	
Headquarters, Owairaka, Auckland	
	1, 3, 6
E. G. Bollard, B.Sc., Ph.D. (Cantab.), Plant Physiologist: plant nutrition.	2, 3
R. M. Davison, B.Sc., Assistant Plant Physiologist: plant growth substances.	3, 9
D. W. McKenzie, B.Sc., Assistant Pomologist: rootstock and var-	9
iety investigations of pome, stone and berry fruits.	
H. M. Mouat, B.Sc., <i>Pomologist</i> : rootstock and variety investiga-	9
tions of citrus and sub-tropical plants. (On leave studying at University of California, Los Angeles, U.S.A.)	
C. A. S. Padfield, Technical Officer: fruit culture and storage.	9, 30
o. 11. 5. 1 adicia, 1 common officer. It air culture and storage.	9, 50
RESEARCH ORCHARD, Oratia, Auckland	
O. Winn, Orchard Manager: fruit culture.	9
RESEARCH ORCHARD, Havelock North, Hawkes Bay.	
E. G. Craw, Orchard Manager: fruit culture.	9
RESEARCH ORCHARD, Appleby, Nelson	
R. E. Robbins, Orchard Manager: fruit culture.	9
Perrancy Operand Commentered Others	
Research Orchard, Earnscleugh, Otago J. E. Hawkins, Orchard Manager: fruit culture.	0
J. D. Hawkins, Orchara Manager. Truit culture.	9
Grasslands Division	
P.O. Box 623, Palmerston North.	
E. Bruce Levy, B.Sc., Director.	1 0
E. A. Madden, H.D.A., Assistant Director: soil conservation; turf	1, 8
research; hill country pasture research.	O
L. W. Gorman, M.Agr.Sc., Senior Ecologist: pasture ecology;	8
strain selection and testing.	
A. J. McNeur, M.Agr.Sc., Ecologist: strain selection and testing.	8
L. Corkill, B.Sc., M.Agr.Sc., Senior Plant Breeder.	4
P. C. Barclay, B.Sc., Plant Breeder.	4
L. B. Anderson, B.Sc., Dip. Dairy Farming M.A.C., Plant Breeder.	4
P. D. Sears, B.Com., M.A., Senior Field Ecologist: pasture utilisa-	8
tion and ecology.	8
F. B. Sill, B.Agr.Sc., Agrostologist: pasture utilisation.	8
R. A. S. Waters, B.Sc., Asst. Agrostologist: pasture ecology.	8
B. R. Watkin, B.Agr.Sc., Asst. Agrostologist: field ecology.	8
F. E. T. Suckling, Dip. Agr. M.A.C., Agrostologist: soil conserva- tion and hill country pasture research	8

 K. W. Clark, Dip.Agr. M.A.C., Technician: soil conservation. C. A. Smith, B.Agr.Sc., Asst. Agrostologist: soil conservation. G. S. Harris, B.Sc., Agrostologist: soil conservation; turf research; hill country pasture research. S. T. J. Coles, Dip.Hort. M.A.C., Asst. Technician: turf research. Nora C. Ongley, B.Sc., Librarian. J. G. McKee, B.Agr.Sc., Agrostologist: soil conservation; hill country pasture research; (stationed at Gisborne). 	Subject 8 8 8 8
Sub-Station, Lincoln W. G. Thurston, B.Agr.Sc., Agrostologist: strain selection and plant breeding.	4, 8
Sub-Station, Gore. J. P. Lambert, M.Agr.Sc., Agrostologist: strain selection and plant breeding.	4, 8
Hop Research Station Nelson	
A. S. Nash, B.Agr.Sc., Director.	7
Plant Chemistry Laboratory P.O. Box 623, Palmerston North	
J. Melville, Ph.D., Director.	1
 B. W. Doak, D.Sc., Assistant Director: phytohormones and pasture plants. *T. R. Vernon, Ph.D., Microbiologist: antibiotics. E. O. C. Hyde, M.Sc., Seeds Research Officer. N. O. Bathurst, M.Sc., Plant Chemist: nitrogen metabolism. A. T. Johns, Ph.D., Microbiological Chemist: symbiosis. R. M. Allison, M.Sc., Chemist: chemistry of forage crops. J. W. Lyttelton, M.Sc., Physical Chemist: plant proteins. R. P. Newbold, M.Sc., Chemist. H. B. Oakley, B.Sc., Chemist: antibiotics. R. M. Greenwood, M.Sc., Chemist: seeds. J. L. Mangan, M.Sc., Chemist: nitrogen metabolism. G. W. Butler, M.Sc., Chemist: nitrogen metabolism. *M. H. Dye, B.Sc., Microbiologist: aerial spore surveys. 	2, 5 2, 3 8, 12 5 8, 25 5, 7 5 2 25 5, 12 5 3
Miss J. Munro, B.Sc., Botanist: symbiosis.	3, 8
Plant Diseases Division Owairaka, Auckland	
G. H. Cunningham, C.B.E., Ph.D., D.Sc., F.R.S. (N.Z.), Director. E. E. Chamberlain, M.Sc., D.Sc., Assistant Director: plant virus	1 22
disease investigations. W. D. Reid, B.Sc., Ph.D. (Edin.), Senior Plant Bacteriologist:	22
legume cultures; bacterial diseases of farm and orchard crops. W. Cottier, M.Sc., D.Sc., Senior Entomologist: general entomology; insect pests of fruit trees.	19

^{*}Stationed at Plant Diseases Division, Auckland.

R. M. Brien, Dip.Agric. (Linc.), Senior Mycologist: general	Subject 20
mycology; plant pathology. G. G. Taylor, M.Agr.Sc., Senior Plant Pathologist: spray investi-	6
gations; bioassay of plant therapeutants.	
K. M. Harrow, M.Agr.Sc., Senior Wood Technologist: timber preservation.	11
H. Jacks, M.Agr.Sc., Plant Pathologist: soil and seed disinfection.	6
D. Spiller, B.Sc., <i>Entomologist</i> : biology and control of timber insects.	11, 19
R. E. F. Matthews, M.Sc., Ph.D. (Cantab.), Mycologist: virus diseases, especially those affecting potatoes.	22
F. J. Newhook, M.Sc., Ph.D. (Lond.), D.I.C., Mycologist: general mycology; field crop diseases; Phormium.	20
Miss J. M. Dingley, M.Sc., Assistant Mycologist: taxonomy.	20
R. A. Harrison, M.Sc., Assistant Entomologist: bioassay of household insecticides.	19
P. B. Hutchinson, M.Sc., Assistant Plant Bacteriologist: bacterial	22
diseases of farm and orchard crops (on leave at University of West Indies, Jamaica).	200
D. W. Dye, B.Agr.Sc., Assistant Plant Bacteriologist: bacterial diseases of farm and orchard crops.	22
J. A. Geddes, B.Sc., Assistant Plant Pathologist: bioassay of plant insecticides (on leave studying at Oxford University, England).	6
P. R. Fry, M.Sc., Assistant Mycologist: virus diseases of plants.	22
K. P. Lamb, B.Sc., Assistant Entomologist: pests of agricultural crops; fabric destroying insects.	19
H. C. Smith, B.Agr.Sc., Assistant Mycologist: general mycology; field crop and vegetable diseases.	20
I. A. M. Cruickshank, M.Sc., Assistant Mycologist: general mycology; field crop diseases; peas, linseed, linen flax.	20
oil Bureau	
Wellington.	
L. I. Grange, D.Sc., A.O.S.M., F.R.S.N.Z., Director. N. H. Taylor, Assistant Director: classification.	2
OIL SURVEYS	2
C. F. Sutherland, Soil Technician, Auckland.	2
I. J. Pohlen, M.A., Senior Pedologist, Hawkes Bay.	
H. S. Gibbs, M.Sc., Senior Pedologist, Wellington.	2 2 2 2 2
C. S. Harris, B.Agr.Sc., Senior Pedologist, Northern South Island.	2
E. J. Cutler, B.Sc., Pedologist, Southern South Island.	2
J. D. Raeside, M.Sc., A.R.I.C., Senior Pedologist, Southern South Island (at present in the U.S.A.)	2
I. L. Baumgart, B.A., B.Sc., Pedologist, Auckland.	2
C. G. Vucetich, B.Agr.Sc., Pedologist, Northern South Island.	2
W. A. Pullar, B.Sc., A.O.S.M., Pedologist, Hawkes Bay. A. S. Wickens, B.Sc., Pedologist, Wellington.	2
J. P. Fox, B.Sc., Assistant Pedologist, Northern South Island.	_
J. D. McCraw, M.Sc., Assistant Pedologist, Southern South Island.	
J. D. Cowie, B.Sc., Assistant Pedologist, Wellington.	-
E. F. Stokes, B.Agr.Sc., Assistant Pedologist, Auckland.	-
(1)	

Soil Chemistry	Subject
J. K. Dixon, M.Sc., Ph.D. (Lond.), D.I.C., F.R.I.C., Chief Soil Chemist.	2, 25
A. J. Metson, M.Sc., Soil Chemist: analytical methods.	2 24
W. B. Healy, M.Sc., Assistant Soil Chemist: analytical methods.	2, 24
G. D. Gemmell, M.Sc., A.R.I.C., Soil Chemist: soil corrosion.	2, 24
K Strzemienski Dh.D. (Crossy) Din Acris Coil Charity 1	2, 24
K. Strzemienski, Ph.D. (Cracow), Dip. Agric., Soil Chemist: phosphate in soils.	2, 24
Elsa B. Kidson, M.Sc., F.R.I.C., Soil Chemist: plant analysis. (Seconded to Cawthron Institute).	2, 25
H. R. Penhale, M.Sc., Assistant Soil Chemist: soil corrosion.	2, 24
M. Fieldes, M.Sc.: physical chemistry.	24
DISTRICT CHEMISTS	
A. R. Browning, B.Sc., Chemist, Auckland.	2
R. J. W. McLaughlin, M.Sc., Assistant Soil Chemist, Wellington.	2
R. B. Miller, M.Sc., A.R.I.C., Soil Chemist, Southern South Island.	2
Frances B. Hurst, M.Sc., Assistant Soil Chemist, Northern South	2, 24
W. M. H. Saunders, M.Sc., Assistant Soil Chemist, Wellington.	2, 24
Soil Physics	
K. S. Birrell, M.Sc., A.R.I.C., Senior Physicist.	2, 28
I. C. Luketina, B.Sc., Soil Physicist, in relation to engineering.	28
R. D. Northey, B.Sc., Soil Physicist, in relation to engineering.	28
R. O. Packard, B.Sc., Soil Physicist.	28
	28
P. L. Newland, B.Sc., Soil Physicist, Auckland. B. H. Allely, B.Sc., Assistant Physicist.	28
Soil Biotics	
A. C. S. Wright, B.Sc. (Hons. Leeds), In Charge.	2, 3
E. J. Gridley, Technical Assistant: pot work.	9
H. W. Johnston, B.Sc., Biologist.	3
J. D. Stout, M.A., Assistant Microbiologist.	2
K. E. Lee, M.Sc., Assistant Soil Biologist.	2, 3
Tobacco Research Station	
Motueka.	1 0
R. Thomson, H.D.A.: tobacco research.	1, 2
— McLeod, B.Agr.Sc.: tobacco research.	2, 4
Wheat Research Institute	
Christchurch	
O. H. Frankel, D.Agr., M.Agr.Sc., F.R.S.N.Z.,	
Chief Fexcutive Officer and Geneticist. wheat breeding,	
Strong Established Spirits	4, 7
13. G. 2. Copp, 1 time 2 total	,
1. D. I dillios, Maria Bridge	
G. A. Thomas, Farm Overseer.	

Subject E. W. Hullett, M.Sc., F.N.Z.I.C., Chief Chemist. L. H. Bird, M.Sc., A.N.Z.I.C., Chemist. cereal chemistry; milling 7, 24, 25 R. Stern, Ph.D., A.N.Z.I.C., Chemist. and baking. G. Larson, Travelling Baker. F. C. Harper, Test Baker. R. Sutherland, Experimental Miller. NEW ZEALAND FOREST SERVICE A. R. Entrican, A.A.S.E., A.M.I.C.E., Director of Forestry. 1, 11, 27, 28 C. M. Smith, M.A. (N.Z.), B.Sc. (For.) (Edin.), Chief Inspector of Forests. W. C. Ward, M.Sc., B.Com., Inspector in Charge, Commercial 11, 27 Division. F. W. Foster, B.A. (N.Z.), B.Sc. (For.) (Edin.), Inspector in Charge, 10 Management Division. V. C. Rapson, B.E., A.M.I.C.E., Inspector in Charge, Engineering 28 Division. T. T. C. Birch, M.A. (Oxon.), Inspector in Charge, Research and 10 Development Division. J. S. Reid, M.Sc., Engineer in Forest Products: forest products and 3, 11 utilisation; wood technology; forest botany. H. R. Orman, B.Sc.: wood technology. 11 D. R. Carr, B.Sc. (Bombay): wood preservation. 30 T. S. Thomson, B.A. (For.) (Oxon.): soil conservation. 2 M. B. Grainger, B.Com.: economics. 27 A. P. Thomson, B.For.Sc.: forest survey. 10 New Zealand Forest Research Institute Private Bag, Whakarewarewa, Rotorua. F. Allsop, M.Sc. (Sheff.), Acting Officer in Charge: forest manage-10 ment. G. B. Rawlings, B.For.Sc.: pathology. 19 4 A. C. Forbes, B.Sc., A.R.C.Sc. (For.): botany. 3, 10 J. T. Holloway, M.Sc.: ecology. 3, 10 S. E. Masters, B.A.: forest survey. 10 G. Duff, B.For.Sc.: forest mensuration. 10 Miss J. E. M. Osborn, M.Sc.: mycology. 20 G. R. Fenton, B.Sc. (Sheff.), B.A. (For.) (Oxon.): silviculture. 10 E. Y. Cutten, B.Sc.: forest management. 10 F. L. Miller, B.Sc. (For.) (Bangor): silviculture; pedology.

Miss N. M. Wilson, B.Sc.: entomology

J. W. Gilmour, M.Sc.: pathology.

Miss K. M. Lewis, B.Sc.: botany.

E. R. Lewis, B.Sc.: biometrics.

C. R. Cruttwell, B.Sc. (For.) (Edin.): forest management.

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CAWTHRON INSTITUTE	Subject
Nelson	
Sir Theodore Rigg, K.B.E., M.A., Hon. D.Sc., M.Sc., F.R.I.C., F.R.S. (N.Z.), Director and Chief, Soils and Agriculture Department: general charge soils, orchard and tomato investigations.	1, 2, 9
D. Miller, M.A., Ph.D., F.R.E.S., F.R.S. (N.Z.), Assistant Director and Chief Entomologist: general charge entomological investigations covering biological control of noxious weeds, parasitic control of insect pests.	1, 19
H. O. Askew, M.A., Ph.D., D.I.C., F.R.I.C., F.R.S. (N.Z.), Chief Biochemical Department: general charge plant chemistry; tobacco, fruit, and minor element deficiency.	2, 5
Miss K. M. Curtis, M.A., D.Sc., D.I.C., F.L.S., F.R.S. (N.Z.), Chief Mycology Department: diseases tobacco; fruit; hops and tomatoes.	20
R. T. J. Blick, M.Sc., A.R.I.C., Curator Museum and Scientific Photographer.	
*Miss E. B. Kidson, M.Sc., F.R.I.C., Soil Chemist: soil and tomato investigations.	2
E. Gourlay, <i>Entomologist</i> : biological control noxious weeds; parasitic control insect pests.	19
A. W. Parrott, Curator, Insect Collections. Miss J. Watson, M.Sc., A.R.I.C., Research Chemist: fruit investiga-	19 2
tions. Miss K. Currie, B.Sc., M.H.Sc., Research Chemist: tobacco in-	2 2
vestigations. R. J. Monk, B.Sc., Research Chemist: minor element deficiencies.	2
Miss E. Sowerby, M.Sc., Mycologist: tobacco and tomato diseases.	20
T. B. Christie, M.Sc., Mycologist: hop investigations.	20
E. Chittenden, <i>Pedologist</i> : soil surveys and field experiments.	2 2
 L. Hodgson, Assistant Soil Chemist: soil surveys. D. J. Stanton, Assistant Horticulturalist: field investigations tomatoes and mineral deficiency studies. 	9
P. W. Brown, Orchardist.	9
I. Gibbs, Field Assistant: soil surveys.	2 3
W. C. Davies, Hon. F.R.P.S., Hon. Photographer for Studies N.Z. NativeFlora.	3
Miss R. G. Johnson, Librarian. Miss S. E. Armstrong, Assistant Librarian.	
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CANTERBURY AGRICULTURAL COLLEGE	
Lincoln. E. R. Hudson, B.Agr.Sc., Dip. C.A.C., Director.	1
J. W. Calder, M.Sc., B.Agr., Dip. C.A.C., Assistant Director: plant breeding; herbage plants; crops and general botany.	12
Prof. I. E. Coop. M.Sc., D.Phil. (Oxon.): animal husbandry.	18
A. H. Flay, M.Agr.Sc., B.Sc.: farm management. I. W. Weston, M.Sc., Ph.D.: farm economics.	27

^{*}Seconded from Soil Bureau, D.S.I.R.

	Subject
J. W. McLean, M.Agr.Sc., B.V.Sc.: veterinary studies.	13
E. P. Wills, B.A., L.L.M., M.Com.: agricultural law	
R. H. Bevin, B.Agr.: agriculture.	12
P. Stevens, Dip. C.A.C.: animal husbandry.	18
A. F. R. Adams, M.Sc., A.N.Z.I.C.: agricultural chemistry.	24
L. Morrison, B.Sc. (Agr.) (Aberdeen): entomology and parasites.	19
H. E. Garrett, M.Agr.Sc.: farm management.	
I. D. Blair, M.Agr.Sc., Ph.D.: plant pathology.	6
L. W. McCaskill, M.Agr.Sc., Dip. C.A.C.: rural education.	
A. W. Riddolls, B.E., B.Sc., A.M.N.Z.I.E.: agric. engineering.	28
L. F. McElroy, N.D.H.: horticulture.	9
A. E. Henderson, B.Agr.Sc.: wool.	18
B. L. Elphick, B.Sc. (Hons.) (Lond.): soils and manures.	2
II. D. Calamara, Din. V.E.M. Din Am. (Doolrie): form management	~
H. P. Schapper, Dip. V.F.M., Dip.Agr. (Dookie): farm management.	12
F. L. Ward, Dip. V.F.M.: agriculture.	9
J. H. Glazebrook, B.Sc. (Hort.), N.D.H.	2
H. D. Orchiston, M.Sc., A.N.Z.I.C.	4
MASSEY AGRICULTURAL COLLEGE	4
Palmerston North.	
Prof. G. S. Peren, B.S.A. (Toronto), <i>Principal</i> : sheep and wool	
research.	
Prof. W. Riddet, B.Sc. (Agr.) (Glasgow), N.D.A. (Hons.), N.D.D.	
(Hons.): dairy cattle and pig research.	17
Prof. I. L. Campbell, B.Agr.Sc. (N.Z.), Ph.D. (Missouri): dairy	11
cattle physiology.	2
A. W. Hudson, B.Agr. (N.Z.), B.Sc. (N.Z.): soil fertility and	2
drainage problems.	7 0
W. A. Jacques, B.Sc. (Wales), N.D.A.: arable crops and grass-	7, 8
land; root development; pampas (cortaderia selloana) studies.	
C. V. Fife, M.Sc. (N.Z.): soil phosphate studies.	2
O. F. Haylock, M.Sc. (N.Z.): soil potassium studies.	2
H. G. Hopewell, M.Agr.Sc. (N.Z.): soil drainage.	2
N. L. St. George, Dip. Agr. M.A.C. (N.Z.): soil drainage.	2
G. S. Robinson, B.Agr.Sc. (N.Z.): arable crops and grasslands.	7, 8
S. L. Green, M.Agr.Sc. (N.Z.): dairy husbandry.	17
	14, 17
F. R. Barnes, B.Agr.Sc. (N.Z.): pig husbandry; milk secretion.	17
J. N. Hodgson, B.Agr.Sc. (N.Z.), Dip. V.F.M.: dairy farm man-	17
agement.	
T. R. Ellett, B.Agr.Sc. (N.Z.): dairy farm management.	17
C. L. Goldstone, B.Agr.Sc. (N.Z.), A.N.Z.I.V.: sheep farm man- 14, 1	15. 17.
agement; sheep.	18
A. J. Gibson, B.Agr.Sc. (N.Z.): sheep management and wool ad-	17, 18
visory service.	27, 10
K. D. Watt: wool classing.	17
A. L. Rae, M.Agr.Sc. (N.Z.): inheritance of productivity and	14, 17
progeny testing (on leave).	17, 17
D A Darton D' A WAG OVER	1.1 1-
fertility.	14, 17

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H. Goot, M.Agr.Sc. (N.Z.): wool quality; inheritance studies;	Subject 14, 17
progerly testing.	,
B. G. Moodie, Dip.Agr. M.A.C. (N.Z.): (Relieving).	17
O. Phillips and W. R. R. Hewitt: sheep crosses for marginal country.	14, 17
G. S. Wilson: sheep grazing trials; milk supply of the ewe.	15, 17
F. W. Dry, D.Sc. (Leeds): morphology and development of the fleece; oligogenes conditioning N-type fleece characterization.	13, 14
J. S. Yeates, M.Sc., Ph.D. (N.Z.), Ph.D. (Cantab.): plant pro-	2 4 0 40
pagation; weed control.	3, 4, 9, 12
J. A. Carnahan, M.Sc. (N.Z.): ecological studies of plant competition.	3, 12
J. H. Tetley, M.Agr.Sc. (N.Z.): ecology of nematode parasitism in sheep.	17, 21
Miss J. Robb, Dip.Agr. M.A.C. (N.Z.): ecology of codling moth.	17, 19
W. M. Webster, B.Sc., M.R.C.V.S.: sterility in rams: anaerobic	3, 16, 22
infections in sheep.	-, -s,
J. C. Newhook, M.R.C.V.S.: male infertility in farm animals.	13, 16
B. A. Reynolds: anaerobic infections in sheep.	· 22
C. R. Barnicoat, M.Sc., Ph.D. (Minnesota), F.R.I.C.: wear in	15, 25
sheep's teeth; milk production in the Romney ewe; dairy chemistry.	
W. A. McGillivray, M.Sc. (N.Z.): vitamin metabolism of farm animals.	15, 25
L. Jurd, M.Sc. (Sydney): iodinated amino acids.	25
R. W. Cawley, M.Sc. (N.Z.): poultry nutrition.	15, 25
J. H. Kissling: improvement of egg production in auto-sexing breeds.	14, 17
K. C. Hockey, N.D.A. (N.Z.), F.R.I.H. (N.Z.): typing of varieties	9
of gooseberries, raspberries and blackcurrants; ozone and its effects on glasshouse crops.	

NEW ZEALAND FERTILIZER MANUFACTURERS' RESEARCH ASSOCIATION (INC.)

M. M. Burns, M.Sc., Ph.D. (Aberdeen): Director.

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THE DAIRY RESEARCH INSTITUTE (N.Z.)

P.O. Box 602, Palmerston North.

The workers at this Institute are engaged on problems concerned with the production of milk and its manufacture into dairy products. Special attention is being devoted to (a) the relation of foods, especially pasture grasses and clovers, to the flavour and composition of milk yielded by cows feeding thereon and to the quality of products manufactured from this milk; (b) chemical and bacteriological changes in cheese-making and cheese-ripening; (c) cheese and butter starters; (d) factors influencing the quality of butter, and engineering problems in dairy factories.

Prof. W. Riddet, B.Sc., N.D.A. (Hons.), N.D.D. (Hons.), *Director.* 1, 15, 17 F. H. McDowall, M.Sc. (N.Z.), D.Sc. (Lond.), A.R.I.C., F.N.Z.I.C., 24, 25

Chief Chemist.

	Subjec
R. M. Dolby, M.Sc. (N.Z.), Ph.D. (Lond.), A.R.I.C., Chemist.	24, 25
A. K. R. McDowell, M.Sc. (N.Z.), A.R.I.C., Chemist.	24
W. R. Mummery, F.R.I.C., Chemist.	24
H. R. Whitehead, D.Sc. (Leeds), A.R.I.C., Chief Bacteriologist.	22, 25
G. A. Cox, M.Sc. (N.Z.), Bacteriologist.	22, 25
J. H. Henson, B.Agr.Sc. (N.Z.), Dairy Technologist.	17, 22
Miss B. D. Matthews, B.Sc. (N.Z.), Assistant Bacteriologist.	22
D. S. Flux, M.Agr.Sc., Chief Physiologist.	13, 15, 17
J. K. Scott, B.E. (Hons.), Experimental Engineer.	28
J. A. Singleton, B.Sc., B.Agr.Sc. (N.Z.), Dairy Factory Superintendent (Department of Agriculture).	17
Miss E. J. Bush, B.Sc. (N.Z.), Dairy Analyst.	22, 24
J. J. O'Dea, Dip. Dy. M.A.C., Chief Buttermaker.	17
W. L. Harkness, Dip. Dy. M.A.C., Chief Cheesemaker.	17
THE NEW ZEALAND CO-OPERATIVE DAIRY COMPAI Dairy Laboratory Hamilton	
W. H. Udy, B.Sc. (Hons.) (Lond.), A.R.I.C., Laboratory Supervisor. A. G. Yarrall, Assistant Bacteriologist: condensed milk and milk	17 17
powder quality.	
J. V. Dunckley, B.Sc., Assistant Chemist: vitamins in dairy products.	17
NEW ZEALAND CO-OPERATIVE RENNET COMPANY	, LTD.
Laboratory Eltham.	
W. A. Snell, B.Sc., <i>Chief Chemist</i> : works control; processed cheese; general chemistry.	17, 24
G. F. Martin, B.Sc., A.N.Z.I.C.: rennet studies; general analytical	17, 24
dairy chemistry.	
W. A. Ritchie, B.Sc.: rennet studies; general analytical dairy chemistry.	17, 24

UNION DEPARTMENT OF AGRICULTURE

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Division of Veterinary Services (Research)	Subject
P.O. Onderstepoort. (Tel.: 5-2411).	
G. v. d. W. de Kock, M.R.C.V.S., Dr. Med. Vet., D.Sc., Director of	1, 16
Veterinary Services: haematology and pathology problems,	1, 10
especially tuberculosis, theileriosis, etc.	
A. M. Diesel, M.R.C.V.S., Deputy Director: theileriosis and acar-	16
iasis.	
J. I. Quin, D.V.Sc., Deputy Director: physiology of the digestive	13, 16
tract of ruminants; nutrition; photosensitization.	
E. M. Robinson, F.R.C.V.S., Dr. Med. Vet., D.V.Sc., Assistant	22
Director: bacteriology and serology; anthrax, swine fever and	
tuberculosis.	
P. J. J. Fourie, M.R.C.V.S., Dr. Med. Vet. (Utrecht), Sub-Director:	16
meat inspection and milk problems; porphyrin studies.	
R. A. Alexander, B.Sc. (Agr.), D.V.Sc., Sub-Director: virus	22
diseases and tissue culture.	
J. R. Scheuber, Dr. Med. Vet.: study of certain types of anaerobes	22
and researches on Black Quarter vaccine production.	
B. S. Parkin, B.A., M.R.C.V.S., D.Sc.: chemotherapy of trypan-	16
osomiasis and other diseases.	
S. W. J. van Rensburg, B.A., M.R.C.V.S., D.V.Sc.: sterility and	16
artificial insemination; mastitis; surgery.	
J. H. R. Bisschop, B.Sc. (Agr.), B.V.Sc.: mineral deficiency on	18
cattle breeding and animal husbandry; meat research.	
H. Graf, B.Sc., D.V.Sc.: chemical pathology; dips and dipping.	16
J. D. W. A. Coles, B.V.Sc.: ophthalmic in cattle and sheep and	16
poultry diseases.	46 40
R. M. du Toit, B.V.Sc.: ectoparasites and transmission experi-	16, 19
ments with insects; nagana investigation.	02
W. O. Neitz, D.V.Sc.: blood parasites of game and protozoal	23
diseases.	12 16
C. Jackson, B.Sc., D.Sc. (S. Afr.), B.V.Sc.: anatomy and path-	13, 16
ology, neoplasms.	22
M. Sterne, D.V.Sc.: botulism.	22 16
K. C. A. Schulz, B.Sc., B.V.Sc., Dr. Med. Vet.: pathology.	21
R. J. Ortlepp, M.A., Ph.D., D.Sc.: helminthology.	22
M. W. Henning, M.R.C.V.S., D.Sc.: bacteriology (part time).	15
J. W. Groenewald, M.Sc. (Agr.), D.Sc. (Agr.): nutrition.	16
T. F. Adelaar, B.V.Sc, toxicology and veld management.	10
S. D. Rossouw, B.Sc., C. M. van Wyk, D.Sc.	17
	11
S. W. Bosman, B.Sc. (Agr.).	25
N. Reinach, M.Sc.: biochemistry and nutrition. J. G. Louw, D.Sc.: biochemistry and nutrition.	25
S. J. Myburgh, M.Sc. (Agr.): biochemistry and nutrition.	25
D. M. Polkker, M.Sc. (Agr.). Diochemistry and nutrition.	16, 24
P. M. Bekker, M.Sc.: chemical pathology; dips and dipping.	10,241

	Subject
H. P. A. de Boom, B.V.Sc.: embryology and anatomy.	13, 16
R. Clark, D.V.Sc.: physiology.	13, 16
A. G. Polson, D.Sc.: physical studies on virus diseases.	22
W. D. Malherbe, B.V.Sc.: chemotherapy.	16
J. R. Malan, M.Sc.: chemical pathology; dips and dipping.	16, 24
M. de Lange, D.V.Sc.: sterility; mastitis; artificial insemination.	16
D. A. Haig, B.V.Sc.: virus diseases and tissue culture.	22
G. D. Sutton, B.V.Sc: anthrax.	22
G. C. van Drimmelen, B.V.Sc.: contagious abortion.	22
N. C. Starke, D.V.Sc.: sterility; artificial insemination.	16
L. M. Wentzel, M.Sc.: botulism.	22, 24
G. J. Truter, M.Sc.: biochemistry and nutrition.	25
Sybille I. Bodenstein, M.Sc.: biochemistry and nutrition.	25
J. D. Smit, R.V.S.: pathology.	16
P. G. J. Louw, D.Sc.: pathology.	24
J. A. Minné, B.Sc.: chemical toxicology.	24
Gertrud Theiler, D.Sc.: ectoparasites.	19
A. S. Canham, D.V.Sc., F.R.C.V.S.: poultry diseases.	16
D. van der Reyden, B.A.: statistics.	29
	16, 19
E. B. Kluge, B.V.Sc.: tsetse fly research. D. R. Hope, B.Sc.: chemical control of worm remedies	24
	17
J. H. Dreyer, B.Sc.: sheep and wool.	16
J. M. W. le Roux, B.V.Sc.: pathology.	16
J. S. van Heerden, B.V.Sc.: sterility; artificial insemination.	22
K. E. Weiss, B.V.Sc.: virus diseases.	
P. W. Thorold, B.V.Sc.: bacteriology.	22
W. C. Jansen, B.V.Sc.: protozoal diseases.	23
V. R. Kaschula, B.V.Sc.: poultry diseases.	16
S. W. van der Merwe, M.Sc.: dips and dipping.	24
W. A. Lombard, M.Sc.: biochemistry and nutrition.	25
P. J. Swart, M.Sc.: helminthology.	21
G. Abraham, B.Com., M.Com. (statistics): statistics.	29
J. J. Wessels, B.Sc.: biochemistry and nutrition.	25
P. J. van Rooy, B.Sc.: chromatography.	22
O. G. H. Fiedler, Dr. rer. nat.: ectoparasites.	. 19
Division of Chemical Services	
J. P. van Zyl, B.A. (S.A.), Dr. Phil. (Göttingen), Chief of Division:	1, 2
(Seconded to other duties.)	_ , _
D. J. R. van Wyk, B.A. (S.A.), M.Sc. (Pretoria), Acting Chief.	1, 15, 24
P. R. v. d. R. Copeman, B.A. (S.A.), Ph.D. (Edin.), Officer in	1, 24
Charge, Johannesburg Government Labs.	1, ~1
C. R. v. d. Merwe, B.A. (S.A.), M.Sc. (Pretoria), D.Sc. (Stell.),	1, 2
Officer in Charge Pretoria Chem. Labs.	1, ~
P. A. E. Kamerman, M.Sc., D.Sc. (Pretoria), Officer in Charge,	1, 24
Cape Town Govt. Labs.	1, 27
S. G. Shuttleworth, M.Sc., D.Sc., Director of Leather Research In-	1, 24
stitute, Grahamstown.	1, -1
J. V. Cutler, M.Sc.	12, 24, 30
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A. Immelman, M.Sc. J. van Garderen, M.Sc. H. G. K. Klintworth, M.Sc. F. Rosenstrauch, M.Sc. M. S. Steyn, M.Sc. (Agr.) P. A. Louw, B.Sc. H. P. Meyer, M.Sc. G. Murray, B.Sc. M. v. Z. Pellissier, M.Sc. D. G. Wessels, M.Sc. W. B. Goldschmidt, M.Sc. C. van Rooyen, M.Sc. T. P. Pretorius, M.Sc. U. Schmidt, B.Sc. E. Fisher, M.Sc. R. Ludorf, M.Sc. M. C. A. Nolte, M.Sc.	Subject 5 2, 29 2, 8 2 2 2 2 2, 7 2, 9 2 29 2 4 2, 24 12, 24
11. 0. 11. 1101to, 111.0t.	12, 24
Division of Soil Conservation and Extension (Tel.: 24881 Pretoria.) J. C. Ross, Ph.D., Director. T. F. Cronje, M.Sc. (Agr.) J. C. Fick, Ph.D. Assistant Directors.	1
J. C. Fick, Ph.D.	
PRINCIPAL AND SENIOR PROFESSIONAL OFFICERS J. A. van Ransburg, B.Sc. (Agr.), : extension and animal hus-	18
bandry. R. de Toit, B.Sc. (Agr.): weed control. J. D. de Wet, B.Sc. (Agr.), clubs and land service. J. Morris, B.Sc.: pastures. J. J. O. Pazzi, Engineer: agricultural engineering. T. Mostert, B.Sc. (Agr.): farming demonstrations and arable E. D. Adler, B.Sc. (Agr.): publicity.	8 1 8 28 crops. 7
A. G. S. du Toit, B.Sc. (Agr.) A. J. v d. Berg, B.Sc. (Agr.). A. Campbell, B.Sc. (Agr.).	1
K. E. W. Penzhorn, B.Sc. (Agr.). Officers-in-Charge, Orange Free G. H. Cronje, B.Sc. (Agr.). State Region.	1
P. C. de Villiers, B.Sc. (Agr.), Officer-in-Charge, Transvaal Region. O. A. Langenegger, B.Sc. (Agr.). Officers-in-Charge, Eastern J. C. S. Brandt, B.Ac. (Agr.). Cape Region. J. Joubert, B.Sc. (Agr.).	1
E. Rood, B.Sc. (Agr.). J. C. van der Walt, M.Sc. (Agr.) **Officers-in-Charge, Western Cape Region.	1
J. A. Pentz, Officer-in-Charge, Drakensberg Conservation Area. Miss M. E. P. van Deventer, B.Sc. (Home Economics), Chief Home Economics Officer.	1 1
Division of Horticulture F. G. Anderssen, B.Sc., Ph.D.: Chief of Division, Pretoria. (Tel.: 2-3221): physiological bio-chemical problems in relation to horticultural crops.	1, 2, 9
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UNION OF SOUTH AFRICA	
	Subject
SUB-TROPICAL HORTICULTURAL RESEARCH STATION,	
Nelspruit, Eastern Transvaal. (Tel.: 36).	
R. H. Marloth, B.A., M.Sc., Ph.D.: Director: citrus root-stock investigations growth problems subtropical fruits.	1, 9, 12
E. F. Malan, M.Sc. (Agr.): cultural problems subtropical fruits.C. J. Naude, M.Sc. (Agr.): citrus fertilizer and horticultural nutritional problems.	9, 12 2, 9
 H. R. Hojby, M.Sc. (Agr.): breeding of fruits and vegetables. J. A. van Blommestein, M.Sc. (Agr.): vegetables production problems. 	4, 9 9, 12
L. A. R. F. Rosselet, H.S.T.D., M.Sc.: soil microbiology in relation to horticultural problems.	9, 12
A. van der Meulen, Ir. D. Agr.: physiological and propagation studies of sub-tropical fruits.	3, 9
HORTICULTURAL RESEARCH STATION	
Pretoria, Tel. 2-3221.	
 P. W. Vorster, M.Sc. (Agr.), D.Sc. (Agr.): Officer in Charge: horticultural production problems and plant nutrition. M. R. V. Reinecke, B.Sc. (Agr.), D.Sc. (Agr.): general horticultural investigations. 	1, 2, 9
A. J. van der Merwe, B.Sc. (Agr.), D.Sc. (Agr.): nutrition of horti- cultural crops.	2, 3, 9
A. C. Bathurst, M.Sc. (Agr.), D.Sc. (Agr.): horticultural nutritional studies.	2, 3, 9
 T. G. la G. Joubert, M.Sc. (Agr.): breeding of vegetables. E. L. Marais, B.Sc. (Agr.): vegetable production problems. J. C. Strydom, M.Sc. (Agr.), Ph.D.: production problems in floriculture. 	4, 9 9, 12 2, 9, 12
O. J. Oleson, M.Sc. (Agr.): vegetable breeding. S. E. A. Rehm, Ph.D., Dr.Ph.Habil: physiological and bio-	4, 9
chemical problems in relation to horticultural crops. A. E. Greville, B.Sc.: nutrition of horticultural crops.	3, 5, 9
L. J. van Lelyveld, B.Sc.: nutrition of horticultural crops.	2, 9
J. J. Wagner, B.Sc. (Agr.): general vegetable investigations.	2, 9 2, 9, 12
P. R. Enslin, M.Sc., Ph.D.: physiological bio-chemical investigations.	3, 5, 9
L. H. Clark, B.Sc. (Agr.), (Port Elizabeth): pineapple investigations.	
E. M. Nyenhuis, B.Sc. (Agr.) (Potchefstroom): general horticultural investigations.	9, 12
A. M. du Plessis, B.Sc. (Agr.) (Oudtshoorn): general horticultural problems.	9, 12
R. J. Goosen, B.Sc. (Agr.) (Upington): general horticultural field investigations.	9, 12
E. Strydom, B.Sc. (Agr.) (Joubertina): general horticultural investigations.	9, 12
W. J. Carstens, B.Sc. (Agr.) (Vaalhartz): general horticultural investigations	2, 9, 12

SEED TESTING STATION,	Subject
Pretoria, Tel.: 2-3221	
H. van Elden, Officer in Charge: seed testing investigations; cytologual studies.	1, 4, 9, 12
J. F. van Wyk, M.Sc. (Agr.): seed production problems.	9, 12
Western Province Fruit Research Station	
Stellenbosch. (Tel.: Nos. 323 and 113).	
R. I. Nel, D.Sc. (Agr.), Director: codlingmoth; biological control	1, 19
of fruit pests.	
M. W. Black, D.Sc. (Agr.): cultural problems tree	
fruits; delayed foliation.	
A. F. de Wet, M.Sc. (Agr.): rootstocks.	
D. du Preez, M.Sc. (Agr.): subtropical fruits. T. Micklem, M.Sc. (Agr.): berry fruits.	9
C. W. Jeffery, B.Sc. (Agr.): delayed foliation.	
S. P. Erasmus, B.Sc. (Agr.): rootstocks.	
A. J. Louw, D.Sc. (Agr.) diseases of tree fruits, es-	
pecially apple scab and peach mildew.	
O. H. Jones, B.Sc. (Agr.): diseases of berry fruits	
and grape vines.	6
Miss C. S. Macfarlane, M.Sc.: bacteriology of fruit	
and vegetable products; bacterial blight of vines.	
I. J. Burger, M.Sc.: problems in connection with	
fruit and vegetable preservation.	
Mrs. M. M. Krynauw, B.Sc.: processing of fruit	
and vegetables.	
W. F. Conradie, B.Sc.: food preservation. Miss D. M. C. Lamprecht, B.Sc.: food dehydra-	
tion.	
W. H. K. Coetzee, Ph.D.: fruit juices and utilisa-	
tion of waste products.	
J. F. du T. Hugo, M.Sc.: fruit juices and utilisa- > food products.	30
tion of waste products.	
F. F. Pratt, B.Sc.: fruit juices and utilisation of	
products.	
H. A. Schweigart, Dip.Chem., Ph.D.: general	
food technology; biochemistry; vitamin chem-	
istry and physiology of nutrition.	
J. J. Dreyer, B.Sc.: vitamin studies.	
M. S. le Roux, M.Sc. (Agr): cultural problems of viticulture.	9
table grapes. A. H. Malan, M.Sc. (Agr.): cultural problems of	9
table grapes.	
W. A. K. Stubbings, D.Sc. (Agr.): codling moth;	
insecticides.	
A. C. Myburgh, M.Sc. (Agr): fruitfly and vince	
pests.	
E. J. Smith, B.Sc.: biological control: Argentine entomology.	19
ant.	
Vacant: orchard mites.	
Vacant : posts of harries and subtropical fruits	

	Subject
J. K. L. Blommaert, M.Sc.: physiology of nutrition physiology. of fruit treets; plant hormones.	3
J. Reyneke, D.Sc. (Agr.): soil utilisation.	
P. E. le R. van Niekerk, M.Sc. (Agr.): soil mois-	
ture; soil structure and irrigation practices.	
E. Beyers, M.Sc. (Agr.): biochemical studies fruit	
trees.	
J. J. van Deventer, B.Sc.: biochemical studies chemistry.	2
J. J. A. Bester, M.Sc.: plant nutrition.	
S. Fourie, B.Sc. (Agr.): soil fertility.	
P. G. Marais, B.Sc.: radio-active isotopes; phys-	
ical storage problems.	
Vacant: spectrographic methods in fruit research spectrography.	2
diagnose of minor elements deficiencies.	4
P. A. L. Steyn, M.Sc. (Agr.): breeding of deciduous	
fruit especially guavas, peaches grapes and straw- > genetics.	4
berries.	
G. D. B. de Villiers, D.Sc.: climate in relation to meteorology.	26
fruit production.	
W. W. Boyes, B.Sc. (Agr.): cold storage of fruit transportation and	30
L. Ginsburg, B.Sc.: cold storage of fruit.	
P. A. Earle, B.Sc., B.Sc. (Eng.). agricultural machinery	
S. J. Cillie, B.Sc., B.Sc. (Eng.). and processing equip-	g 28
G. H. Bredell, B.Sc., B.Sc. (Eng.). ment for agricultural	
products.	
A. S. Viljoen, M.Sc. (Agr.): cultural problems of fruit.	
P. J. J. Prins, B.Sc. (Agr.): cultural problems of fruit. Field	9
W. F. Conradie, B.Sc. (Agr.): cultural problems of fruit.	
iruit.	
vivision of Entomology	
T. J. Naudé, M.Sc., Ph.D., Chief of Division and Director of	19
Research, Cicadellidae (Tel. 2.6605 Pretoria).	
H. K. Munro, D.Sc., F.R.E.S. (Lond.): systematic entomology	19
(Trypetidae; insect collections and records (Tel.): 2.6705	
Pretoria.)	
F. G. C. Tooke, M.Sc.: forest insect research (Tel. 2.6805 Pretoria)	19
F. Taylor, B.A.: cutworm and maize stalk-borer investigations.	19
C. P. van der Merwe: plant regulatory services (Tel. 2.7005 Pre-	19
toria).	
W. J. van der Line, M.Sc., Ph.D.: plant nematodes (Tel. 2.6705	21
Pretoria).	
W. G. H. Coaton, D.Sc.: termite investigations. (Tel. 2.6805 Pretoria).	19
F. W. Pettey, Ph.D.: biological control of cactus insects.	10
J. S. Taylor, M.A., D.I.C., F.R.E.S.: biological control of cactus	10
insects.	10
R. O. Wahl., M.A., B.A. (Hons.): deciduous fruit pest research:	10
dried fruit pests and cold storage in relation to fruit fly; hylotruypes bajulus investigations. (Tel.: 6.2001 Cape Town)	
,	

	Subject
G. A. Hepburn, B.Sc.: citrus pests and hylotrupes bajulus in-	19
vestigations. (Tel.: 2.734 Port Elizabeth).	
B. Smit, D.Sc.: household insect problems (Tel. 2.6705 Pretoria)	19
B. K. Petty, M.Sc.: insecticides research (Tel.: 3.3116 Pretoria)	19
F. J. Stofberg, B.Sc.: citrus pest investigations.	19
A. J. Smith, B.Sc.: citrus, cotton and tobacco insects.	19
E. E. Anderssen, B.Sc. (Agr.): insect vectors of tobacco diseases;	19
vegetable pest investigations. (Tel. 2.6705 Pretoria) A. E. Lundie, B.Sc. (Agr.), Ph.D.: apiculture. (Tel.: 2.6909	10
Pretoria).	19
Prof. J. C. Faure, Ph.D.: bionomics and control of migratory	19
locusts; taxonomy of Thysanoptera. (Tel.: 4.3812 Pretoria).	17
C. du Plessis, B.Sc., Locust Information Bureau: attractants and	19
repellents in locust baits. (Tel. 4.3912 Pretoria.)	
S. J. S. Marais, B.Sc.: biological control of Karoor caterpillar.	19
D. H. Botha, B.Sc.: locust destruction.	19
C. J. B. Smit, M.Sc.: life history and ecology of brown locust in	19
outbreak centres. (Tel. 4.3912 Pretoria.)	
H. A. F. Lea, B.Sc.: bionomics and control of migratory locusts.	19
(Tel.: 4.3912 Pretoria).	
A. L. Reyneke, B.A.: life history and control of brown locust	19
in outbreak centres.	
D. van V. Webb, B.Sc.: wattle bagworm research. (Tel. 3281	19
Pieter-Maritzburg.)	10
Miss H. A. D. van Schalkwyk, M.Sc.: insect identification; re-	19
cords and curculionidae (systematic) (Tel. 2.6805 Pretoria).	19
H. J. R. Dürr, M.Sc.: chemistry—insecticide research. (Tel.	19
6.2661 Cape Town). Miss V. Angelopulo, M.Sc.: Plant Nematode Research. (Tel.:	
2.6705 Pretoria).	21
J. H. Grobler, B.Sc.: pine browntail moth investigation. (Tel.:	19
2.6805. Pretoria).	
E. Hartwig, M.Sc., Thysanoptero and Coccidae (systematic); in-	19
sect identification. (Tel. 2.6705) Pretoria).	
E. H. W. Lochner, B.Sc.: Insecticide Research. (Tel. 3.3116	19
Pretoria).	
Miss A. J. Dunton, B.Sc.: wattle bagworm (insecticides) (Tel.	19
3281 Pieter-Maritzburg).	
Division of Economics and Markets	
(Tel.: 2.2401)	
S. J. de Swardt, B.A., M.Sc., Chief of Division: direction and co-	27
ordination of economic research.	
A. J. Beyleveld, B.Com., Ph.D., Principal Economist: interna-	29
tional trade; statistical and marketing intelligence.	
A. R. Havemann, B.Sc. (Agr.), M.Sc., Senior Economist: farm	27
costing and farm management.	
I. C. Neethling, B.A., Ph.D., Senior Economist: farm costing;	27
farm management; agro-economic survey.	00
A. J. du Plessis, M.Sc. (Agr.): price statistics; national income.	29

	Subject
B. J. van Niekerk, M.A.: economic and marketing intelligence.	27
J. H. du Plessis, B.A., M.Sc.: marketing of tobacco, chicory; oil	27
seeds; hay.	
O. E. Burger, B.A., B.Com., M.Sc.: farm accounting; farm costing.	27
A. D. C. N1. D.C. (Am.): form management	27
A. B. C. Nel, B.Sc. (Agr.): farm management.	27
S. H. Fischer, B.Sc. (Agr.): marketing intelligence.	27
J. le R. Retief, B.Sc. (Agr.): agro-economic survey farm manage-	41
ment.	27
J. H. L. Jooste, B.Sc. (Agric.): agro-economic survey; farm	27
management.	20
D. F. Marais, B.Com: price statistics.	29
M. D. Marais, B.A., M.A., B.Econ., B.Com., Ph.D.: international	29
trade; statistical and marketing intelligence.	
B. S. Olivier, B.Com.: price statistics.	29
J. K. Siertsema, B.Com.: farm accounting; farm costing.	27
A. J. P. van Zyl, B.Econ.: consumption; farm costing.	27
C. M. van Niekerk, B.Com. (Hon.): marketing intelligence.	27
S. F. Papenfus, B.A. (Econ.): statistics general.	29
	27
J. B. Willers, B.Com. (Econ.): farm management.	27
S. J. van N. du Toit, B.Com. (Econ.): farm management.	
C. P. de Klerk, B.Com. (Econ.): farm management.	27
D. J. G. Smith, B.Sc. (Agr.): farm management.	27
S. F. Oberholzer, B.Sc. (Agr.): farm management.	27
I. D. van der Walt, B.Sc. (Agr.): farm management.	27
Division of Botany and Plant Pathology	
	1
R. A. Dyer, M.Sc., D.Sc., F.R.S.S.A., Chief of Division, Director	1
of Botanical Survey: botanical survey; systematic botany.	
J. E. van der Plank, M.Sc., Ph.D., D.Sc., Officer in Charge of Plant	6
Pathology Section: virus and other plant diseases.	
Miss I. C. Verdoorn: systematic botany.	3
Miss E. A. Bruce, B.Sc.: systematic botany.	3
B. de Winter, M.Sc.: systematic botany.	3
Miss J. Elffers, B.Sc.: systematic botany.	3
Miss C. P. Edmonstone-Sammons, B.Sc. (Hon.): systematic botany.	3
Miss M. Henrici, Ph.D., D.Sc.: plant physiology and bio-chemistry.	3, 24
L. E. W. Codd, M.Sc., D.Sc.: botanical survey.	3
J. P. H. Acocks, B.A., M.Sc: botanical survey.	3
R. Story, M.Sc.: botanical survey.	3
A. P. D. McClean, M.Sc., D.Sc.: virus diseases.	6
V. A. Wager, M.Sc., D.Sc.: plant diseases.	6
F. C. Loest, M.Sc., D.Sc.: sub-tropical plant diseases.	6
E. E. Schaefer, M.Sc.: plant diseases advisory service.	6
P. H. B. Talbot, M.Sc., Ph.D., : mycology.	6, 20
G. J. Gorter, M.Sc.: cereal diseases.	()
Miss C. F. O'Connor, B.Sc.: potato virus diseases.	()
G. F. Cross, B.Sc.: subtropical plant diseases.	()
Miss P. J. Klesser, B.Sc.: plant virus diseases.	()
Miss S. M. Cowin, B.Sc. (Hon.): plant virus diseases.	
Miss C. H. van der Merwe, B.Sc. (Agr.): plant diseases.	

Division of Agricultural Education and Research	Subject
H. W. Turpin, B.Sc. (Agr.), M.Sc. (Agr.), Ph.D., Director of Agric	1
tural Education and Research.	cul- 1
G. S. Mare, B.Sc. (Agr.), Asst. Director of Agricultural Education	ion 1
and Research. P. Koob, P. So. (Acr.): fibre plants	-
P. Koch, B.Sc. (Agr.): fibre plants. J. W. Rowland, D.Sc. (Agr.), Principal Pasture Research Office	er: 8
research in pastures and land use.	. 0
F. W. Neser, B.Sc.: statistical work on agricultural problems.	29
J. C. Bonsma, M.Sc. (Agr.): climatological studies on cattle; be	eef 14, 15, 26
cattle breeding.	2 0
L. C. C. Liebenberg, M.Sc. (Agr.): grass seed production and search.	re- 3, 8
A. Fisher, M.Sc. (S.A.): pasture research and land use.	8
C. D. B. Liebenberg, B.Sc.: pasture research and land use.	3, 8
Miss J. Whitmore, M.A. (S.A.): climatological studies.	26
C. J. Pienaar, M.Sc. (S.A.): pasture research and land use.	14 17 10
J. J. Kotze, M.Sc. (Agr.): general animal husbandry. P. J. Schreuder, B.A., Ph.D.: horsebreeding and management.	14, 17, 18 18
E. J. Penzhorn, B.Sc. (Agr.): dairy cattle; production und	
irrigation.	
J. D. le Roux, B.Sc. (Agr.): climatological studies; beef cattle.	
D. F. Retief, B.Sc.: tobacco research.	4, 7
W. v. d. Merwe, B.Sc. (Agr.): potato production under irrigation. F. van Rooyen, M.Sc.: tobacco research.	ion. 4, 7 4, 7
J. F. Peens, M.Sc.: irrigated crops and tobacco.	4, 7
I. J. Nothling, B.Sc. (Agr.): crops under irrigation.	7
A. B. Bridgens, B.Sc.: pasture research and land use.	8
D. G. Collett, B.Sc.: pasture research and land use.	3, 8 os. 7
J. S. J. du Toit, B.Sc. (Agr.): field husbandry and irrigated crop T. F. Gericke, B.Sc. (Agr.): pasture research and land use.	9s. 7 3, 8
W. S. Grobbelaar, B.Sc. (Agr.), Field husbandry.	7
S. V. Hefer, B.Sc., M.Sc.: chemistry of weedicides.	5, 25
A. Jurriaanse, B.Sc. (Agric.), B.Sc. (Forestry): fodder trees.	8
Miss H. M. le Roux, B.Sc. (Hons.), M.Sc.: plant physiology.	6 25
J. S. C. Marais, D.Sc.: biochemistry. A. R. Pullen, B.Sc. (Agr.), M.Sc. (Agr.): fibre crops.	4
H. J. Straatman, Landbou Ingenieur (Wageningen): field husba	
H. H. von Broembsen, B.Sc. (Agr.): pasture research and land	use. 3, 8
CEDARA COLLEGE OF AGRICULTURE	
Tel: Pietermaritzburg 3281 and 4643.	
H. H. Cornell, B.A.	1
A. J. Taylor, M.Sc., A.R.I.C.: soil fertility.	2 7
W. O. Schultz., B.Sc. (Agr.) Diploma Landwirtschaft.	7
G. F. S. Hyam, B.Sc.: field husbandry. P. F. Clarke, M.Sc.,: field husbandry.	7, 8
A. J. Pienaar, B.Sc.: pasture research.	8
T. S. Jenkinson, B.Sc.: pasture research.	8

	Subject
E. K. Hall, M.Sc.: animal husbandry and dairying.	17
D. P. Hanham, B.Sc.: animal husbandry and dairying.	17
M. A. A. Vonk, Agr. Eng. L.E.: dairying	17
P. D. Rose, Certificate Grootfontein, Sheep and Wool, Certifica	te 18
Bradford Tch. College. (Sheep and Wool) F.T.I.	
	17
J. C. D. Retief, B.Sc.: poultry.	19
L. B. Ripley, Ph.D., M.Sc.: entomology.	28
C. T. Crosby, B.Sc. (Agr.) (Eng.): agric. engineering.	
Miss M. W. Farmar, B.Sc.: soil fertility.	2
GROOTFONTEIN COLLEGE OF AGRICULTU	RE
Middelburg, Cape. Tel.: 33 and 44.	
A. College Officers	
L. L. Roux, B.Sc., M.Sc., D.Sc., Principal, College of Agriculture.	1 13 14 15
P. J. Naude, B.Sc. (Agr.), M.Sc. (Agr.), M.A.	4, 7, 8, 12
	7, 8, 12
J. H. Vorster, B.Sc. (Agr.).	14
D. F. Badenhorst, B.Sc. (Agr.).	
J. J. S. Cilliers, B.Sc. (Agr.).	2,7
J. H. Stapelberg, B.Sc. (Agr.).	14, 15, 17, 18
P. L. Crouse, B.Sc. (Agr.).	17
H. A. J. Stead, B.Sc.	2, 5, 24
G. C. Theron, M.Sc., Ph.D.	3
M. M. Walters, B.Sc. (Agr.),	2, 5, 24
J. H. Grobler, B.Sc.	2, 5, 24
A. H. de Vries, B.Sc. (Agr.).	19
C. R. Wyche, Hons. Diploma in Sheep and Wool.	18
B. Officers on Agricultural Education and Research	
Establishment	
M. L. Botha, B.Sc. (Agr.): sheep and wool research.	13
C. M. Havenga, B.Com.	29
W. J. Hugo, B.Sc. (Agr.)	
W. D. Meyer, B.Sc. (Agr.),	15
	14
J. C. Erasmus, M.Sc. (Agr.).	4, 7, 8
C. E. M. Tidmarsh, M.Sc., Ph.D.	3, 8, 12
C. J. van Heerden, B.Sc. (Soil Conservation).	3, 8, 12
P. W. Roux, B.Sc.	3, 8, 12
P. E. F. Jooste, Two Year Diploma Course.	18
GLEN COLLEGE OF AGRICULTURE	
Glen, Orange Free State.	
I. P. J. du Plessis, B.A., M.Sc., Principal.	1
M. J. van der Spuy, B.Sc. (Agr.), Ph.D., Senior Education Office	er 2, 5
and Lecturer in Chemistry.	
F. M. du Toit, M.Sc. (Agr.): field husbandry.	4, 7
H. W. F. G. Kloos, D.Sc.: field husbandry.	4, 7
E. E. Meyer, B.Sc. (Agr.): animal husbandry.	
J. J. Pretorius, B.Sc. (Agr.): animal husbandry.	14, 15
W. C. J. Viljoen, B.Sc. (Agr.): poultry.	14, 15
pountry.	18

J. A. de Beer, B.Sc. (Agric.), Test Manager: poultry.	Subject
J. C. de Klerk, B.Sc. (Agr.): sheep and wool.	18 18
M. C. F. du Plessis, B.Sc.: chemistry.	2, 5
J. W. C. Mostert, M.Sc.: botany.	3, 8
January and the second of the	3, 0
POTCHEFSTROOM COLLEGE OF AGRICULTURE	
Potchefstroom.	
L. J. Henning, B.Sc. (Agr.), M.S.A., M.S., Principal, College of	1
Agriculture.	
E. A. Oosthuizen, D.I.C., C.E.: threshing machinery.	28
H. J. Ligthelm, B.Sc. (Agr.): general dairying.	17
G. A. Gill, M.C., B.A. (Cape), M.A. (Cantab.): botany.	3
F. X. Laubscher, M.Sc. (Agr.): maize.	2, 4, 7
J. P. F. Sellschop, M.A., M.Sc. (Agr.): oil-bearing seeds; ground-	4. 7
nuts.	Aus
D. W. McKellar, B.Sc. (Agr.): arable crops.	7
H. J. Maree, M.Sc. (Stell.), M.Sc. (Wisc.): lucerne.	4
P. J. Gildenhuys, M.Sc.: grasses.	4, 8
M. D. Pienaar, M.Sc. (Agr.): soybeans; cowpeas. I. D. Hattingh, M.Sc.: plant physiology.	4 3
Miss M. L. Coetsee, B.Sc. (Hon.): cytology grasses.	4
Miss A. S. van Wyk, B.Sc.: general botany.	3
J. G. Brevis, B.Sc.: soils, plant and animal nutrition.	2, 15
J. D. Basson, M.Sc.: soils; plant and animal nutrition.	2, 15
P. J. Serfontein, B.S.A. (Toronto), M.Sc. (Kansas): poultry nutri-	14, 15
tion and breeding.	,
C. L. Marais, B.Sc. (Agr): poultry nutrition and breeding.	14, 15
S. T. Potgieter, B.Sc. (Agr.): poultry nutrition and breeding.	14, 15
E. M. Nyenhuis, B.Sc. (Agr.): horticulture.	9
J. H. Preller, M.Sc. (Agr.): pastures.	8
P. J. S. Coetzee, M.Sc.: pastures.	8
C. T. van Rensburg, Dip. S. and W. (Grootfontein), Hon. Dip S.	14, 17
and W. (Syd.): sheep breeding and production.	44 45
H. P. D. van Wyk, B.Sc. (Agr.): cattle breeding and nutrition.	14, 15
W. A. Verbeek, M.Sc. (Agr): animal breeding and nutrition (dairy	14, 15
breeds, pigs).	14, 15
S. A. Oosthuizen, M.Sc. (Agr): animal breeding and nutrition	17, 13
(cattle, horses, donkeys). K. D. W. Lüdemann, B.Sc. (Agr.): animal breeding and nutrition	14, 15
(beef breeds).	11, 10
J. G. Marais, B.Sc. (Agr.): arable crops.	7
J. G. Marais, D.Sc. (1181.). arabic exept.	
STELLENBOSCH-ELSENBURG COLLEGE OF AGRICULTU	RE OF
THE UNIVERSITY OF STELLENBOSCH	
J. S. Marais, B.A., Ph.D., Director, Agricultural Research Station.	1
J. L. Steenkamp, M.Sc., D.Phil. (Oxon.).	
I. de V. Malherbe, B.A., Ph.D.	
M. H. Slabber, M.Sc., D.Sc. (Agr.).	2
A. M. C. Skibbe, M.A. nutrition.	
L. L. Eksteen, M.Sc. (Agr.).	
J. H. T. Nieuwoudt, B.Sc. (Agr.).	

	Subject
A. C. Leemann, D.Sc. (Geneva).: plant physiology.	3
J. H. Neethling	4
A. W. van der Westhuizen. plant breeding.	4
J. M. Stevens.	
S. J. du Plessis, D.Sc. (Agr.).	6
J. J. du Toit, M.Sc. (Agr) plant pathology.	· ·
J. H. Nortje, B.Sc. (Agr.)	
J. T. R. Sim, D.Sc. (Agr.). P. D. Henning, D.Sc. (Agr.).	
J. H. Hofmeyr, D.Sc. (Agr.). arable crops, grassland, herbage	7, 8
S. A. Hulme, B.Sc. (Agr.). and fodder plants.	7,0
S. J. Gericke, B.Sc. (Agr.).	
O. S. H. Reinecke. horticulture—pomology	9
P. Rocher, B.Sc. (Agr.). horticulture—olericulture.	
H. L. Strydom, M.Sc. (Agr): plant husbandry (tobacco).	12
C. J. Theron, M.Sc. (Agr.).	(m.)
J. H. Cronje, Ph.D.	
C. T. de Waal, M.Sc. (Agr.).	
H. J. du Toit, B.Sc. (Agr.). plant husbandry, viticulture and	12
B. J. Venter, B.Sc. (Agr.). oenology.	
C. J. Orffer, B.Sc. (Agr.).	
J. J. van Huyssteen.	
O.T. de Villiers, M.R.C.V.S., D.V.Sc.: animal anatomy and	13
physiology.	
J. C. Swart, D.Sc. (Agr.).	
J. H. W. Th. Reimers, Agr. Ir.	
G. W. Johnston.	14, 15
P. J. J. van Rensburg, B.Sc. (Agr.).	
B. J. van der Vyver, B.Sc. (Agr.).	
I. L. Ferreira, B.Sc. (Agr)	
C. R. Liebenberg, M.Sc. (Agr.).	
W. R. van Schalkwyk, B.Sc. (Agr.). animal production (poultry).	17
J. E. Erasmus, B.Sc. (Agr.).	
B. J. Smit, M.Sc. (Agr.), Ph.D. C. P. Greyling, B.Sc. (Agr.).	17
J. T. Potgieter, M.Sc., Ph.D. (Ohio).	
O T T 1 . TEO ()	10
J. G. Theron, B.Sc. (Agr.) entomology.	19
I. S. Perold, D.Sc. (Agr.): bio-chemistry.	05
W. H. van der Merwe, B.Sc. (Agr.), Ph.D.	25
S. P. van Wyk, Ph.D.	27
R. P. Perold, B.Sc.: engineering.	20
Miss M. E. Jooste, M.Sc.	. 28
Miss G. J. Louw, B.Sc. home economics.	27
Miss A. C. Vos, B.Sc.	21

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H. A. Luckhoff, M.Sc. (For.): silviculture.	10
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A. M. de Villiers, B.Sc. (For.): forest influences.	10
(2.32)	10
orest Products	
M. H. Scott, B.Sc. (Edin.), Chief Forest Products Officer.	11
J. P. Rault, B.Sc. (For.): seasoning, etc.	11
C. H. Banks, B.Sc. (For.): timber mechanics.	11
P. M. D. Krogh, Senior Technical Assistant: timber preservation.	11
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H. B. Davel, B.Sc. (Ames): composition of milk-manufacture and	17
processing of dairy products.	
H. L. Neethling, M.Sc. (Agr.) (Ames.): bacterial contamination of butter from wash water; bacterial contamination of cheese.	17, 22
A. A. de Kock, B.Sc. (Agr.) (Pret.): general dairy bacteriological	22
studies.	dead dead
S. Bakalor, M.Sc. (Agr.) (Pret.): composition of milk supplies of	25
South African dairy industry; influence of climatic factors on	
composition of milk; cheese yields in the Union.	
A. Dixon, M.Sc. (Agr.) (Pret.): freezing-point depression of milk;	25
adulteration of industrial milk supplies.	
F. N. Bonsma, B.Sc. (Agr.) (S.A.), D.Sc. (Agr.) (Pret.): animal	14, 15, 17
breeding research with dairy cattle, sheep and pigs; animal	
nutrition.	
J. S. Starke, M.Sc. (Agr.) (Pret.): animal breeding research with	14, 15, 17
dairy cattle, sheep and pigs; animal nutrition.	10
J. C. Faure, Ph.D. (Cornell) taxonomy of Thysanoptera: general	19
entomology.	10
J. W. C. Geyer, M.Sc. (Agr.) (Pret.): general entomology; termite anatomy, morphology and histology.	19
J. J. Matthee, M.Sc. (Pret.), Ph.D. (Cantab.): insect physiology.	19
M. W. Henning, M.R.C.V.S., D.Sc. (S.A.): salmonella infections	22
and calf paratyphoid, equine abortion studies in bacteriophage	
and ovine abortion.	
F. R. Tomlinson, M.Sc. (Agr.) (Stell), Ph.D. (Cornell), D.Sc. (Agr.)	27
(Pret.): price analysis; land values; farm organization studies,	
research methods in farm economic research.	
Z. D. v. d. Merwe, B.Sc. (Agr.) (Pret.): marketing fruits and	27
vegetables.	
I. I. Theron, B.Sc. (Agr.) (S.A.), soil fertility studies and	24
Ph D (Calif.). nitrogen in soils; fertiliser	
L. P. v. Wvk, B.Sc. (Agr.) (Pret.) trials on dryland and under	24
irrigation; phosphate de-	0.4
V. de Villiers, B.Sc. (Agr.) (Pret.) ficiency in relation to climatic	24
conditions	

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J. A. Vorster, B.Sc. (Agr.) (Pret.), M.S.A.E. (Ames): rainfall and	28, 30
run-off, design of tillage cutting shares. Bulk handling of maize.	,
S. J. P. K. v. Heerden, M.Sc. (Agr.). (Eng). (Pret.): maize harvest-	28
ing studies and picker designs.	
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(Agr.) (Stell).: biochemical and nutritional studies.	
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nutritional studies.	
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(Cornell). and pasture (dryland and	
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A. M. Gericke, M.Sc. (Rutgers), D.Sc.	18
(Agr.) Pret.). \(\rightarrow\) poultry breeding and	
H. L. Delport, B.Sc. (Agr.) (Pret.). J nutrition.	18
B. J. Dippenaar, M.Sc. (Agr.), D.Sc. (Agr.) (Stell.): physiogenic	6
disease of plants and vegetable pathology.	
E. E. Wyers, B.A. (S.A.), M.Sc. (Pret.): mycological studies of	6
economic plants.	9
P. C. J. Oberholzer, M.Sc. (Agr.) soil fertility studies in relation	9
(Pret.), Ph.D. (Ariz.). to horticulture crops; fertil-	9
I. Mathews, M.Sc. (Agr.) (Pret.). Sizer and irrigation require-	9
D. F. A. von Staden, B.Sc. (Agr.) ments of citrus; mineral nutri- (Pret.). tion of citrus; stock-scion re-	9
S. F. Stiemie, B.Sc. (Agr.) (Pret.) action in citrus.	9
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genetics and plant breeding of field and horticultural crops.	
J. P. Botha, M.Sc. (Agr.) (Pret.): grazing management; farm	8
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R. A. Bhote, B.Sc. (Agr.), I.D.D. (on foreign studies).	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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Assistant Marketing Officers working as Inspectors. R. V. S. Rao, B.Sc. (Agr.), Vizianagram. P. M. Idnani, B.Sc. (Agr.), Shiupur. R. M. Tulsiani, B.Sc., Shiupur.	27 27 27
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F.R.A.S.B., Plant Protection Adviser to the Government of India	
and Director Locust Control in India. (Tel.: 43824).	
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ogist.	J
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V. K. Subramanyam, B.Sc., Entomologist, In charge Icerya Purchasi	19
Control Scheme, Bangalore.	
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Dr. B. P. Pal, M.Sc., Ph.D., F.L.S., F.N.I., Assistant Director, Indian Agricultural Research Institute, New Delhi, and Imperial Economic Botanist: breeding and genetics of wheat, tobacco, potatoes and maize; study of heterosis; plant introduction.	1, 4
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Lune Ivanon.	

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Husbandry. P. M. Dabadghao, M.Sc. (Bot.), Assistant Agronomist, I/C.,	8
Legumes and Pasture Grasses. P. N. Saxena, M.A., Assistant Statistician: statistics.	29 7
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diseases of sugarcane and taxonomy of fungi. S. P. Ray Chaudhuri, M.Sc., D.Phil., F.L.S., Associate I.A.R.I.,	22
Assistant Virologist: plant viruses in general. R. Prasada, M.Sc., D.Sc., Assistant Plant Pathologist: study of	6
wheat rusts. M. L. Gattani, M.Sc., Ph.D., Assistant Plant Pathologist: fungicides; cereal smuts.	6
M. K. Hingorani, Ph.D., Associate I.A.R.I., Assistant Plant Bacteriologist: bacterial disease of wheat and storage rots of fruits.	22
Division of Agricultural Engineering	
Major D. T. Brown, A.M.I.Mech.E., M.I.B.A.E., <i>Head of the Division of Agricultural Engineering</i> : research into, and design, improvement and development of implements, machinery and processes.	18
R. V. Ramiah, B.E. (Mech.), M.Sc. (AE), M.A.S.A.E., Agricultural Engineer, Design and Development of Agricultural Machines.	
A. K. Kaul, Assistant Engineer: testing of agricultural implements. K. S. Chopra, A.M.M.E.A., Assistant Engineer, Field Trials of Agricultural Implements and Tractors.	18
Division of Entomology.	
Dr. E. S. Narayanan, M.A., Ph.D., D.I.C., F.R.E.S., <i>Head of the Division of Entomology</i> : biological control of crop pests and parasites; apiculture. (Tel.: 8876/4).	10
Dr. S. Mukherji, M.Sc., D.Sc., Systematic Entomologist: taxonomy of insects.	19
Dr. S. Pradhan, M.Sc., Ph.D., D.Sc., F.R.E.S., Insect Ecologist: ecology and toxicology.	10
B. B. Bose, B.Sc., Assistant Systematic Entomologist: taxonomy of lepidoptera.	10

C. K. Samuel P.Sa. Associat J.A.D.J. A. S.	Subject
C. K. Samuel, B.Sc., Associate I.A.R.I., Assistant Systematic Entomologist: biology and survey of crop pests.	19
Dr. R. P. Chaudhury, M.Sc., Ph.D., F.R.E.S., Assistant Insect Epidemiologist: epidemiology population studies and insect vectors of virus diseases.	19
Rattan Lal, M.Sc. (Hons.), Associate I.A.R.I., Assistant Insect Physiologist: insect physiology and taxonomy of diptera.	19
T. V. Venkatraman, B.A., M.Sc., F.R.E.S., Assistant Sugarcane Entomologist: pests of sugarcane and their parasites.	19
DIVISION OF CHEMISTRY	
Dr. S. P. Ray Chaudhuri, M.Sc., Ph.D., D.Sc., F.R.I.C., Head of the Division of Soil Science and Agricultural Chemistry.	1, 24
Dr. S. V. Desai, B.Sc., Ph.D., D.Sc., D.I.C., Soil Microbiologist. Dr. N. B. Das, Ph.D., Biochemist: biochemical problems, includ-	24 25
ing nutrition. Dr. K. C. Gulati, M.Sc. (Hon.), B.Sc. (Hons. Tech.), Ph.D., Organic Chemist: insecticides and fungicides (synthetic and from plant	8
origin, oils, fats.). Dr. C. Dakshinamurty, M.Sc., Ph.D., D.Sc., F. Institute P. (Lond.), Experimental Physicist: spectrographic analysis of soils and plants.	2
Dr. B. C. Chatterjee, D.Sc., <i>Physical Chemist</i> : genesis and development of Indian soils.	2
Dr. R. V. Tamhane, M.Agr., Ph.D., Soil Survey Officer: soil survey.	2
M. A. Idnani, B.Sc., Associate I.A.R.I., Assistant Agricultural Chemist: conservation and utilization of human urine as manure.	2
L. M. Mathur, M.A., B.T., A.S.T., Officiating Assistant Soil Survey Officer: soil survey and land utilization.	2
Dr. K. V. S. Satyanarayana, B.Sc. (Agr.), Ph.D., Associate I.A.R.I., Assistant Soil Survey Officer.	2
Dr. B. B. Roy, M.Sc., Ph.D., A.R.I.C., Assistant Physical Chemist: distribution of minerals in Indian soils.	2
Dr. A. C. Bose, B.Sc. (Hons.), Ph.D., A.I.C., Officiating Assistant Organic Chemist: insecticides and other agricultural analysis.	2
Dr. H. D. Bhoumik, M.Sc., Ph.D., Officating Assistant Soil Chemist:	2
fertility status of Indian soils and its amelioration. Dr. N. D. Vyas, M.Sc., Ph.D., Assistant Soil Microbiologist: phosphate fixation by micro-organisms.	24
UGARCANE BREEDING STATION COIMBATORE, South India, Tel.: 188. 'Grams: "Sugarcane."	
Nand Lal Dutt, M.Sc., F.A.Sc., Sugarcane Expert: breeding of economic types of sugarcane for tropical and sub-tropical India;	1, 4
study of Saccharum and related genera for hybridisation. M. K. Krishnaswami, M.A., Assistant Sugarcane Expert: morphology of Saccharum with special reference to economic characters.	4

S. K. Mukherjee, M.Sc., Assistant Botanist, Spontaneum Expedition Scheme: exploration of wild Saccharums and allied genera	Subject 3
and their taxonomic studies. K. V. Gopala Iyer, B.A., Dip. Tech., Chemist: constituents of sugarcane juice in seeding canes with reference to manufacturing	5
qualities. Miss R. Shah, B.Agr., M.Sc. (Mich.), Plant Physiologist (temporary): physiology of flowering in sugarcane.	3
Indian Veterinary Research Institute	
Mukteswar, Kumaon. Tel: Naini Tal 248.	
Dr. S. Datta, D.Sc., M.R.C.V.S., D.T.V.M., F.R.S. (Edin.), F.N.I., Director.	1
V. R. Rajagopalan, G.M.V.C., Dip. Bacteriology, Research Officer (T.B. and J.D.).	22
Dr. H. N. Ray, M.Sc., Ph.D. (Lond.), F.R.S.T.M. (Lond.), F.A.S.P., Officer-in-Charge, Section of Parasitology (officiating).	23
M. R. Dhanda, L.V.P., M.Sc. (Michigan), Dip. Bacteriology (Lond.), Assistant Research Officer (Anaerobes), (I.C.A.R. Scheme)	22
(officating). C. Seetharaman, B.Sc., G.M.V.C., B.V.Sc., Assistant Research Officer (Bact.) (officiating).	22
J. M. Lall, L.V.P., Assistant Research Officer (Path.) (officiating). B. N. Soni, B.Sc. (Agr.) (Edin.), Officer-in-Charge, (Hides and skins, I.C.A.R. Schemes) (officiating).	16 19
Dr. R. Mukerjee, Ph.D., Assistant Research Officer (Biochemistry) (officating).	25
M. K. Sreenivasan, G.M.V.C., Veterinary Officer.	18
N. C. Sen, G.B.V.C., Assistant Research Officer (TB., and J.D.) (I.C.A.R. Scheme) (officiating)	22
Sardar Gian Singh, L.V.P., Assistant Research Officer (Training) (Hides and Skins) (officating)	19
Indian Veterinary Research Institute	
Izatnagar. Tel.: Bareilly 96.	
BIOLOGICAL PRODUCTS SECTION Balwant Singh, G.P.V.C., Officer-in-Charge.	00
D. A. Munro, G.C.V.C., Research Officer (Production) (officiating).	22
S. K. Chaudhuri, G.C.V.C., Assistant Research Officer (officiating)	2.2
M. S. Menon, G.V.Sc., Assistant Research Officer (officating).	22
Animal Nutrition Section:	
Dr. N. D. Kehar, Sc.D., Officer-in-Charge.	15
Dr. S. N. Ray, Ph.D., Research Officer: physiology. T: S. Krishnan, M.Sc., Research Officer (Vanaspati Scheme,	13
I.C.A.R.) (officiating).	15
Dr. D. N. Mullick, Ph.D., Assistant Research Officer: biochemistry.	25
Dr. B. N. Majumdar, Ph.D., Assistant Research Officer: bio- chemistry (officiating).	25
N. K. Ayyar, B.A., Assistant Research Officer (Training).	15

Dr. K. Chandra, Ph.D., B.Sc. (Agr.), Assistant Research Officer: biochemistry (officiating).	Subject 25
Dr. K. Sahai, M.Sc., Ph.D., Assistant Research Officer (Vanaspati Scheme, Ministry of Food) (officiating).	15
Prithvichand Sawhney, M.Sc., Assistant Research Officer in the scheme on the bearing of nutrition on the helminthic infestations of animals. (officiating).	15
POULTRY RESEARCH SECTION	
S. Ganapathy Iyer, G.M.V.C., Officer in Charge. Capt. S. B. V. Rao, L.V.P. (Hons.), Research Officer (Pathology) (officiating).	18 16
Dr. S. Bose, Ph.D., Assistant Research Officer: biochemistry. D. Parthasarathy, M.Sc., Assistant Research Officer: biochemistry. (officiating).	25 25
H. P. Tandon, L.V.P. (Hons.), Assistant Research Officer: poultry. (officiating).	18
B. M. Thakral, Assistant Research Officer: training (officiating).	18
ECTION OF PARASITOLOGY	
Dr. B. C. Basu, D.Sc., Research Officer: entomology. Dr. H. D. Srivastava, D.Sc., Research Officer: helminthology. P. B. Menon, B.A., Assistant Research Officer: entomology	19 21 19
(officiating). S. B. Manshani, B.Sc., Assistant Research Officer: helminthology. (officiating).	21
S. C. Dutt, M.Sc., Assistant Research Officer in the scheme for investigations into the life histories of helminth parasites of immediate importance to farm stock with a view to determining their pathogenicity, treatment and prevention (officiating).	21
NIMAL GENETICS SECTION	
Dr. P. Bhattacharya, M.Sc., Ph.D., Officer-in-Charge.	14
Dr. S. S. Prabhu, Ph.D., Research Officer: artificial insemination. (officiating).	14
D. P. Mukherjee, M.Sc., Assistant Research Officer: training (officiating).	14
M. P. Johari, G.B.V.C., M.R.San.I., Assistant Research Officer. artificial insemination (officiating).	14
Chet Ram, B.A., L.V.P., Assistant Research Officer (Artificial Insemination Centre, Patna) (officiating).	14
Gajjan Singh, B.V.Sc., G.M.V.C., Assistant Research Officer (Artificial Insemination Centre, Calcutta) (officiating).	14
Dr. A. Roy, M.Sc., Ph.D., Assistant Research Officer: hormones.	14
(officiating). S. V. Chandiramani, B.V.Sc. (Agr.), M.S. (Texas, U.S.A.), Assistant Research Officer (Artificial Insemination Centre, Bangalore) (officiating).	14

	Subject
PATHOLOGY AND BACTERIOLOGY SECTION P. R. Krishna Iyer, G.M.V.C., Research Officer: disease investiga-	16
tion. (officiating). K. C. Sinha, G.B.V.C., Assistant Research Officer: disease investigation (officiating).	16
VETERINARY SECTION Tufail Ahmad Siddiqui, G.C.V.C., Veterinary Officer.	. 18
Forest Research Institute	
P.O. New Forest (Dehra Dun), U.P. (Tel.: 596, 693 Dehra Dun).	
Administration C. R. Ranganathan, M.A., I.F.S., President, Forest Research Institute and Colleges. Head of administration of the Forest Research Institute and organization of research work carried on by the In-	1, 10, 11
stitute. S. Krishna, C.I.E., Ph.D., D.Sc. (Lond.), F.I.C., F.N.I., Director of Forest Research: to assist the President in the direction of research.	1, 10, 11
B. R. Ramchandani, B.A., Registrar: to help the President, Forest	1
Research Institute and Colleges in administration. C. A. R. Bhadran, M.A., M.B.E., I.F.S., Publicity and Liaison Officer: publicity of research work carried out by the branches; general editing, printing and distribution of publictions: library organisation. Secretary, Central Advisory Board for India on Forest Utilization.	1, 10, 11
BOTANICAL BRANCH	
K. D. Bagchee, M.Sc. (Cal.), D.Sc. (Lond.), D.I.C., F.N.I., Mycologist and Acting Forest Botanist, Head of Botanical Branch: damage by fungi (mycology) to living trees and to felled timber.	3, 6, 20
M. B. Raizada, M.Sc., Systematic Botanist: systematic botany and ecology.	3
B. K. Bakshi, Ph.D., Junior Research Officer, Assistant Botanist (Mycology): to assist mycologist.	20
Silvicultural Branch Jagdamba Prasad, B.Sc., LL.B., Silviculturist, Head of the Silvicultural Branch: speeding up, improving and cheapening production; collection, recording and dissemination of information regarding the large varieties of trees in India: study of existing crops and their response to different methods of treatment and experiments in the raising of new crops: standardisation of methods of research, organisation of investigations, and computation of data collected by local forest officers.	7, 8, 10, 12
G. S. Puri, M.Sc., Ph.D. (Luck. and Lond.), F.G.S., F.L.S., Serier Research Officer, Ecologist: ecological study of Indian forests as	2, 4, 12

AVAIA OLIVATO OL	HIDLA
an aid to silviculture; ecology of erosion in the Siwalik Hills; nutritional requirements of Indian trees; teaching forest ecology and plant geography to forestry students.	Subject
R. S. Gupta, M.Sc., Ph.D. (Leeds), A.I.E., Soil Chemist: survey of forest soils, methods of dry farming, etc.; teaching soil science to forestry students.	2
VOOD TECHNOLOGY BRANCH	
K. A. Chowdhury, M.B.E., B.A. (Cal.), D.Sc. (Edin.), M.S. (Syra.), Wood Technologist, Chief Research Officer, Head of the Branch: wood anatomy pure and applied.	3, 11
S. S. Ghosh, M.Sc., Assistant Wood Technologist: wood anatomy. K. Ramesh Rao, M.A., B.Sc. (Hons.), Assistant Wood Technologist: wood anatomy.	3, 11 3, 11
M. A. Rehman, M.Sc., A.R.I.C., A.Inst.P., Senior Research Officer, Head of the Branch: natural and artificial methods of seasoning timber, physical properties of wood; testing Indian woods for shuttles, bobbins and other wood-working industries.	11
Jai Kishen, M.Sc. (Physics), Junior Research Officer: general assistance to the head of the branch.	11
Nood-Working and Timber Mechanics Branch S. N. Kapur, Ph.D., A.M.I.Chem.E., F.N.I., Chief Research Officer, Head of the Branch: practical tests on working qualities of Indian woods, and on the suitability of Indian timbers for	11, 30
various uses. V. D. Limaye, B.E. (Mech.), Senior Research Officer, Timber Testing Officer: determination of various strength properties of	11
Indian timbers, plywood and wooden containers. Syed Mohammed Hasnain, M.E.E. (Roorkee), Junior Research Officer, Assistant Timber Testing Officer.	11
D. Narayanamurti, M.Sc., Dr.Ing., A.I.I.Sc., F.R.I.C., F.Inst.P., A.M.I.Chem.E., F.N.I., Chief Research Officer, Head of the Branch: study and development of wood preservatives and	11
wood preservation processes including fire retardant treatments; adhesives, development, methods of application, etc.; improved wood (including plywood) development and uses chemistry of wood and bark and utilization of wood waste (boards, etc.);	
physical properties of composite wood products, etc. A. Purushottam, M.Sc., D.Sc., F.Inst.P., Assistant Wood Preservation Officer: permeability of wood to air and corrosion of metals	11
by wood. Nirmal Chand Jain, M.Sc., A.H.B.T.I., Assistant Wood Preserva- tion Officer: adhesives from cashew nut shell liquid, physical properties of composite wood, influence of treatment on pro- perties of wood.	11

B. N. Prasad, M.Sc., Junior Research Officer: mechanism of fire retardant action (physical aspects); accelerated methods of setting adhesives and production of laminated wood; damping of wood.	11
Cellulose and Paper Branch M. P. Bhargava, M.Sc., A.I.C., Chief Research Officer, Head of the Branch: test of raw material, pulp and paper in the laboratory; production of paper on a semi-commercial scale from Indian	11
raw materials. Chattar Singh, B.A., Assistant Paper Pulp Officer: pulp and paper technology, cellulose chemistry; production of newsprint-grade mechanical pulp, chemical and dissolving pulps, paper and boards, analysis of water for industrial purposes.	11
Kartar Singh, M.Sc., Junior Research Officer.	11
S. R. D. Guha, M.A., M.Sc., Ph.D., Junior Research Officer.	11
Entomological Branch	10
N. C. Chatterjee, D.Sc., F.N.I., Forest Entomologist, Head of the Entomological Branch: damage by insects both in the forest and to forest produce; biological control of forest pests; general survey of the life cycles, food plants, geographical distribution, natural enemies and particular ecological features of the forest insect fauna of India, and intensive investigation of certain major pests.	19
R. N. Mathur, M.Sc., Ph.D., Senior Research Officer, Systematic Entomologist: taxonomic study of the immature stages of coleoptera, lepidoptera and Diptera (tachinidae); exploratory work on termites and their classification.	19
G. D. Bhasin, B.Sc., <i>Junior Research Officer</i> : general systematics; taxonomic studies of the immature stages of Indian lepidoptera (pyralidae).	19
P. N. Chatterjee, B.Sc. (Hons.), M.Sc., D.Phil. (Allahabad), F.E.S., Junior Research Officer: forest entomological problems; protection of trees and bamboos (felled, converted and stored) from ruination by insects, investigations into the control of termites; systematics of forest parasite, forest parasite oogenesis; education.	19
CHEMISTRY AND MINOR FOREST PRODUCTS BRANCH.	
R. L. Badhwar, M.Sc., Offg. Chief Research Officer, Head of the Branch, also Officer-in-Charge, Minor Forest Products Section: research in economic botany, particularly medicinal, poisonous,	11, 12
and essential-oil-bearing plants and vegetable tanning materials. S. V. Puntambekar, M.Sc., Ph.D. (Illinois), F.A.Sc., Senior Research Officer (Chemist): chemical research aiming at commercial exploitation of minor forest products involving chemical investigations and analysis and advisory work.	11, 24, 25
P. N. Deogun, B.A., P.F.S., Deputy Conservator of Forests: working as forest officer for cultivation, etc., of medicinal and other economic plants.	11, 12

P. S. Rao, M.Sc. (Hons.), D.Sc., F.A.Sc., Junior Research Officer (Junior Chemist): engaged on the utilization and investigation of gums, pectins, mucilages, etc.	Subject 11, 25
B. S. Varma, B.Sc., Junior Research Officer (Analytical Chemist): engaged on the chemical analyses of minor forest products, particularly drugs and essnetial oils.	24, 25
G. R. Hingorani, M.Sc., Junior Research Officer (Assistant Minor Forest Products Officer): engaged on the survey of minor forest products and pharmacognosy of medicinal plants.	11
H. S. Rao, M.Sc., D.Sc., Junior Research Officer (Documentation Officer): documenting research information; publication and editorial work.	11, 29
TATISTICAL BRANCH	
K. R. Nair, M.A., M.Sc., Ph.D., F.S.S., Senior Research Officer, Statistician, Head of the Branch: design of experiments in all the Research Branches and Statistical analysis of results and interpretation; advice on statistical aspects of all experimental work in the forests of India including forest surveys; statistical	10, 11, 29
training to forest officers. R. P. Bhargava, M.Sc. (Mathematics), M.Sc. (Statistics), B.L., Junior Research Officer, Assistant Statistician.	29
Central Potato Research Institute	
MAIN INSTITUTE, Patna. S. Ramanujam, M.A., Ph.D. (Lond.), F.N.I., Director, Central Potato Research Institute, Patna (temporary): holds permanent substantive post as Cyto-Geneticist, Indian Agricultural Research Institute, New Delhi: Cyto-genetics and breeding of	1, 3, 4
crop plants; (Tel.: Residence: 917; Office: 923). M. J. Thirumalachar, M.Sc., D.Sc., Ph.D. (Wis.), Plant Pathologist, Central Potato Research Institute, Patna (temporary): plant	3
pathology and mycology. T. J. Chellaramani, B.Agr., Assistant Botanist, Central Potato Research Institute, Patna (temporary): plant breeding and agronomy.	3
I. POTATO BREEDING SUB-STATION, Simla.	
Pushkarnath, M.Sc., Ph.D., Assoc.I.A.R.I., Botanist, Potato Breeding Sub-Station, Simla (temporary): plant breeding; genetics and viruses. (Tel.: 2326).	3, 4
M. L. Khanna, B.Sc.Agr., Assoc.I.A.R.I., Assistant Botanist, Potato Breeding Sub-Station, Simla (temporary): plant breeding.	4
II. POTATO MULTIPLICATION SUB-STATION, Bhowali.	
D. Srinivasachar, M.Sc., Assoc.I.A.R.I., Assistant Botanist, Potato Multiplication Sub-Station, Bhowali (temporary): plant breeding.	4

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IV. POTATO CERTIFICATION SUB-STATION, Kufri.	
B. B. Thakur, B.Sc.Agr., Assistant Botanist, Potato Certification	1
Sub-Station, Kufri (temporary): plant breeding and agronomy.	
Indian Dairy Research Institute	
Bangalore. (Tel.: 139).	
Dr. K. C. Sen, D.Sc., F.N.I., Director of Dairy Research: nutritive	21
value of cattle foods; carotene metabolism; composition and	
quality of milk; vitamin A and carotene in milk and butter;	
calcium metabolism with special reference to oxalic acid in feed-	
ing stuffs; development of dairy education and research.	
ing states, do to to parout of daily oddown and robotic our	
DAIRY CHEMISTRY SECTION	
Dr. K. P. Basu, M.Sc., Ph.D., D.Sc., Dairy Chemist: chemistry of	21
milk and milk products in general; enzymes in milk; vitamins,	
non-protein nitrogen and lipoids in milk; vegetable rennet;	
value of hydrogenated oils.	
Dr. N. N. Dastur, Ph.D., A.I.I.Sc., Second Dairy Chemist: effect	21
of administration of thyroxine on milk yield in cows and buffal-	
oes; effect of souring of milk on chemical composition; vege-	
table rennet; causes of spoilage of ghee.	
Dr. C. P. Anantakrishnan, Ph.D., A.I.I.Sc., F.R.I.C., Assistant	21
Dairy Chemist: nutritive value of fodders with special reference	
to carotene metabolism.	
Dr. T. M. Paul, Ph.D., A.R.I.C., A.M.Tech.I., Assistant in Dairy	21
Chemistry: detailed composition of the milk of different breeds	
of cows, buffaloes, goats and sheep.	
A. Kanna, M.Sc., Technical Assistant: enzymes in milk.	21
D. Venkatappiah, B.Sc. (Hons.), Technical Assistant: non-	21
protein nitrogen in milk.	
G. K. Murthy, B.Sc., Milk Tester.	21
R. Venkateswara Rao, B.Sc., Research Assistant: vitamins in	21
milk with special reference to vitamin B complex.	
Arun Sen Gupta, M.Sc., Assistant in Chemistry: nutritive value of	21
hydrogenated oils; composition of buffalo milk proteins.	200
S. R. Jayashanker, B.Sc., Assistant in Chemistry: nutritive value	21
of hydrogenated oils.	des L
N. B. Shroff, B.Agr., Research Assistant: preparation of vegetable	21
rennet.	des A
Miss K. R. Lalitha, B.Sc., Honorary Research Worker: cause of	21
spoilage of ghee.	41
Miss G. S. Lily, B.Sc., Honorary Research Worker: lipoids in milk.	21
R. N. Kak, I.D.D., Supervisor: vegetable rennet.	21
The state of the s	~ 1
DAIRY TECHNOLOGY SECTION	
Dr. S. C. Ray, Ph.D., Dairy Technologist: handling, processing	21
and distribution of market milk and manufacture of milk pro-	
ducts	

M. K. Sastri, B.A., I.D.D., A.I.D.I., Assistant Research Officer:

technology of long distance transport of milk.

	Miss Dr. P. Devi, Ph.D., Assistant Dairy Technologist: technology of manufacture of ghee.	Subject 21
	M. R. Srinivasan, M.A., A.I.I.Sc., Technical Assistant: physico-	21
	chemical control in the manufacture of milk products. L. P. Maruthamuthu, I.D.D., Technical Assistant: manufacture of milk products.	21
	K. S. Gunnery, B.Sc., Research Assistant: bacteriology of long distance transport of milk.	21
	Sukumar De, B.Sc., I.D.D., Research Assistant: manufacture of milk products.	21
	K. C. Nayar, B.Sc., Technical Assistant: technology of manufacture of ghee.	21
	Miss J. S. Khambatta, B.Sc., Research Assistant: chemistry of long distance transport of milk.	21
	M. S. Pherwani, B.Agr., A.I.D.I., <i>Technical Assistant</i> : technology of manufacture of ghee.	21
	G. S. Mani, B.Sc., Laboratory Assistant: technology of manufacture of ghee.	21
	M. C. Badami, B.Sc., Hon. Research Worker: manufacture of milk products.	21
) P	AIRY BACTERIOLOGY SECTION	
	Dr. K. K. Iya, Ph.D., A.I.I.Sc., I.D.D. (Hons.), <i>Dairy Bacteriologist</i> : bacteriology of milk and milk products; dairy detergents; nutrition of lactic acid bacteria.	21
	H. Laxminarayana, M.Sc., Assistant Dairy Bacteriologist: bacteriology of milk and milk products.	21
	Kerala Verma, B.Sc., I.D.D., Assistant Bacteriologist: bacteriological quality of market milk.	21
-	F. D. Aibara, B.Sc., Assistant in Dairy Bacteriology: bacteriology of milk.	21
	V. Lakshminarasim, B.Sc., <i>Technical Assistant</i> : cocci in milk. V. K. N. Nambudripad, B.Sc., <i>Technical Assistant</i> : effect of different chemical agents in the micro-organisms of milk.	21 21
]	B. N. Gopalakrishna, B.Sc., Hon. Research Worker: coliform bacteria in milk.	21
1	V. Sreenivasamurthy, B.Sc., Hon. Research Worker: nutritional requirements of lactic acid bacteria.	21
)A	IRY HUSBANDRY SECTION	
7	M. C. Rangaswamy, I.D.D., N.D.D. (Scot.), Dairy Husbandry Officer: dairy husbandry.	21
	1. J. Lazarus, I.D.D., Superintendent: dairy cattle management. Tel. 139 link.	21
	D. Narayan, I.D.D., Assistant Dairy Husbandry Officer: dairy cattle management.	21
(I.A. Narayanaswamy, L.E.E., Farm Engineer: dairy engineering. 5. Vijaya Rao, L.Agr., Technical Assistant: fodder crop production.	21 21
I	Ranjit Singh, I.D.D., Technical Assistant: cattle management. N. Lakshminarayana, L.E.E., L.M.E.: dairy engineering.	21 21

	Subject
C. S. Dharmarajan, B.A., Research Assistant: dairy cattle nutrition	
S. N. Anantharamiah, B.Sc., Research Assistant: biochemistry	21
(dairying.)	21
G. M. Azmathulla, I.D.D., Supervisor: dairy products.	21
S. P. Thomas, I.D.D., Supervisor: dairy products.	21
K. Ananthaswamy, I.D.D., Supervisor: fodder production.	21
T. V. Arunachalam, I.D.D., Supervisor: cattle management.	21
H. Narasimhaswamy, I.D.D., Supervisor: cattle management.	21
S. Nagarajan, B.Sc. (Agr.), Hon. Research Worker: dairy cattle	21
nutrition.	
R. K. Sen, B.Sc. (Agr.), Hon. Research Worker: dairy cattle	21
nutrition.	
MILK POWDER SCHEME, Anand.	
K. K. Desai, I.D.D., C.D.D. (Glas.), N.D.D. (Scot.), Technical	21
Officer: preparation and properties of milk powder.	
V. R. Bhale Rao, M.Sc., Dairy Biochemist: preparation and pro-	21
perties of milk powder.	
V. G. Kothanda Pani, L.M.E., Dairy Engineer: dairy engineering.	21-
Verghese Kurien, B.Sc., B.E. (Hon.), M.S. (U.S.A.), Dairy	21
Engineer: dairy engineering.	
Control Bios Bossouch Institute	
Central Rice Research Institute	
Cuttack, Orissa.	
K. Ramiah, M.Sc., Dip. Agr. (Cantab.), L.Agr., F.N.I., F.A.Sc.,	
F.N.A.Sc., Director: direction of research on rice—genetics,	25
breeding, pathology, agronomy and bio-chemistry.	
R. L. M. Ghose, M.Sc., Geneticist and Botanist: genetics and breed-	4
ing of rice.	6 00
S. Y. Padmanabhan, B.Sc. (Hons.), Assoc., I.A.R.I., Mycologist:	6, 20
plant pathology; mycology.	
M. V. Vachhani, B.Agr., Ph.D., Assoc. I.A.R.I., Agronomist:	12
agronomy.	10
P. Israel, M.A., Entomologist: entomology.	19
T. P. Abraham, M.A., Statistician: statistics.	29
M. Subbiah Pillai, B.A., B.Sc. (Agr.), Farm Superintendent.	12
C. T. Abichandani, M.Sc., Ph.D., A.R.I.C., Assistant Chemist:	2
soils, fertilizers and plant nutrition.	
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my cology.	
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Zoology Section: entomology; zoology.	

Dr. Jaswant Singh, Ph.D. (Wales), Head of Agricultural Section:	Subject 1, 2
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J. R. Badola, B.Sc. (Agr. Eng.), Assistant Professor of Agricultural Engineering: agricultural engineering.	28
Dr. Y. V. Kathavate, Ph.D., Assistant Professor of Mathematics and Physics: physics and mathematics.	29
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Dr. S. Mukherjee, M.Sc., Ph.D. (Cantab.), A.R.I.C., A.I.I.Sc.,	5, 24
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Amarnath Gulati, M.Sc. (Pb.), Senior Research Assistant (Micro	23
scopist).	28
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C. Nanjundayya, M.Sc. (Cal.), Junior Research Assistant, Physicist.	28
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Assistant Physicist	

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Bholanath, M.Sc., Second Economic Botanist. Simlote, M.Sc. (Agr.) (Hons.), B.Agr., Assistant Botanist.	4
D. Ganeshan, M.A., M.Sc., Assistant Botanist.	3, 4
H. P. Bhatia, B.Sc. (Agr.), Botanical Assistant.	4
N. R. Bhide, B.Sc. (Agr), Assistant Agronomist. N. T. Nadkarni, B.Agr., Entomologist.	7, 12
J. L. Merh, M.Sc., Plant Pathologist.	6, 20
Scheme for Cotton Physiological Research, Institute of Plant Industry, Indore. (Tel.: 183).	
Prof. R. H. Dastur, O.B.E., F.L.S., F.N.I., M.Sc. (Bom.), Plant Physiologist: general botany and plant physiology.	3
K. M. Samant, M.Sc. (Bom.), Ph.D. (Liverpool), Biochemist: biochemistry.	25
Research Schemes	
Indian Institute of Science, Bangalore	
Scheme for the investigation of stability of nitrogenous fertilisers in Indian soils with special reference to their availability for cotton. S. Balasundaram, B.Sc., A.I.I.Sc., Research Assistant.	5
Assam	
Scheme for improvement of Hill cotton. Dr. S. R. Barooah, B.Sc. (Agr.), M.Sc. (Agr.—Bot.), Ph.D., Economic Botanist, Jorhat.	4
Mysore	
Scheme for breeding Sea-Island and Egyptian Cottons in Mysore Sta	te.
Dr. L. S. Doraiswami, M.Sc., Ph.D., Economic Botanist, Bangalore. G. Srinivasa Iyenger, M.Sc., Senior Assistant Botanist, Visueswariah Canal Farm, Mandya.	4
Вомвау	
Broach Cotton Breeding Scheme. B. J. Thakar, B.Agr., Cotton Breeder, Broach.	
	4
Scheme for Cotton Breeding in Khandesh.	
T. R. Khadilkar, B.Agr., M.Sc. (Cornell), Cotton Breeder, Jalgaon.	4
Poona Cotton Wilt Breeding Scheme.	
Dr. M. K. Patel, Ph.D. (Iowa), Plant Pathologist, Poona	15

	Subject
G. B. Patel, B.Agr., M.Sc. (Calif.), Cotton Botanist, Surat.	. 4
Scheme for improvement of Wagad Cotton at Virangam and Bavla. D. S. Sheth, B.Agr., M.Sc. (Ohio), Cotton Breeder, Virangam.	4
Scheme for improvement of Dharwar-American Cotton. S. G. Kelkar, B.Agr., Cotton Breeder, Dharwar.	4
Inter-specific Hybridisation in cottons at Surat. G. B. Patel, B.Agr., M.Sc. (Calif.), Cotton Botanist, Surat.	4
Madras	
Scheme for improvement of Mungari cotton. G. Seshadri Ayyangar, M.A., M.Sc. (Bot.), Assistant Cotton Specialist.	4
Scheme for improvement of Cocanadas cotton. S. Mayandi Pillai, B.Sc. (Agr.), Assistant Cotton Specialist.	4
Scheme for breeding Cambodia cotton in the Ceded Districts. N. Kesava Iyenger, M.A. (Bot. and Zool), M.Sc. (Lond.), (Bot-Cytogenetics), Assistant Cotton Specialist.	4
Scheme for production of long staple cotton. Dr. P. Abraham, B.A. (Zool and Bot.), M.Sc. (Bot.), Ph.D. (Lond.) (Plant Physiology, Regeneration in Plants), Assistant Cotton Specialist.	3, 4
Scheme for improvement of Tinnevelly and Karunganni cottons. S. M. Kalyanaraman, B.Sc. (Agr.), Assistant Cotton Specialist.	3
Scheme for improvement of White Northerns C. Jagannatha Rao, B.A. (Bot. and Geo.), M.Sc. (Agr.), Assistant Cotton Specialist.	3
United Provinces	
Scheme for Hybridisation in Arboreum Cottons Mohd. Anwar Ahmad Ansari, M.Sc., Assistant Economic Botanist: cotton, fibres and tobacco.	4
EAST PUNJAB	
Scheme for improvement of cotton in South-Eastern Districts. S. Avtar Singh, B.Sc. (Agr.) (Punjab), Cotton Breeder.	4
Scheme for improvement of American cotton suitable for introduction in Sub-montane districts.	
5. Gurbachan Singh, B.Sc. (Agr.), Agricultural Assistant. 5. Swaran Singh, B.Sc. (Agr.), Agricultural Assistant.	4

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CENTRAL PROVINCES AND BERAR	
Scheme for the improvement of cotton of Nagpur-Wardha tract. R. S. Shrivastava, L.Agr., Research Officer.	4
Scheme for the improvement of cotton of Akola-Amraoti Tract. N. P. Deshmukh, B.Agr., Research Officer.	4
Scheme for the improvement of cotton of Ghat-Tract. V. N. Paranjape, B.Sc., Research Officer.	4
Scheme for the improvement of cotton of Buldana Tract. S. L. Nema, B.Sc. (Agr.), Senior Research Assistant.	4
Poona	
Co-ordinated Crop Weather Scheme Dr. L. A. Ramdas, M.A. (Physics) (Calcutta), Ph.D. (Physics) (Calcutta), F.N.I., F.A.Sc., F.N.A.Sc, Director of Agricultural Meteorology.	1
Baroda	
Scheme for improvement of Mathio Cotton at Amreli. Bhalchandra Avadhutrao Phadnis, M.Sc. (Bot.) (Bombay), Assistant Cotton Breeder, Amreli.	4
Hyderabad	
Scheme for improvement of Cotton in Parbhani district. N. R. Yardi, B.Agr. (Bombay), Cotton Breeder, Parbhani.	4
Gaorani Cotton Improvement Scheme.	
V. K. Bederkar, B.A. (Madras), B.Agr. (Poona), M.S. (America), Cotton Research Botanist, Nanded.	4
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Poona. (Tel.: 2291). Dr. L. A. Ramdas, M.A., Ph.D., Director. A. K. Mallik, M.Sc., B.Sc. (Agr.), Assoc. I.A.R.I., Meteorologist. R. K. Misra, M.Sc. (Agr.), Assistant Meteorologist. P. S. Sreenivasan, M.Sc. (Agr.), Assistant Meteorologist, Statistician. K. M. Gadre, M.Sc. (Agr.), Assistant Meteorologist. Zoological Survey of India 34, Chittaranjan Avenue, Calcutta 12. 'Grams: Zoology, Calcutta. Tel.: Central 2182. Dr. M. L. Roonwal, M.Sc., Ph.D. (Cantab.), F.N.I., Assistant Superintendent: locusts. Dr. A. P. Kapur, M.Sc. (Hons.), Ph.D. (Lond.), D.I.C., Assoc. I.A.R.I., F.R.E.S., Zoologist: coccinellidea and pyralidae. K. S. Pradhan, M.Sc., Assistant Zoologist: coleoptera and rhynchota. T. G. Vazirani, B.Sc. (Hons.), Entomological Assistant (Offg.), life history of chrysomellid betels.	26 26, 29 26 19
Poona. (Tel.: 2291). Dr. L. A. Ramdas, M.A., Ph.D., Director. A. K. Mallik, M.Sc., B.Sc. (Agr.), Assoc. I.A.R.I., Meteorologist. R. K. Misra, M.Sc. (Agr.), Assistant Meteorologist. P. S. Sreenivasan, M.Sc. (Agr.), Assistant Meteorologist, Statistician. K. M. Gadre, M.Sc. (Agr.), Assistant Meteorologist. Zoological Survey of India 34, Chittaranjan Avenue, Calcutta 12. 'Grams: Zoology, Calcutta. Tel.: Central 2182. Dr. M. L. Roonwal, M.Sc., Ph.D. (Cantab.), F.N.I., Assistant Superintendent: locusts. Dr. A. P. Kapur, M.Sc. (Hons.), Ph.D. (Lond.), D.I.C., Assoc. I.A.R.I., F.R.E.S., Zoologist: coccinellidea and pyralidae. K. S. Pradhan, M.Sc., Assistant Zoologist: coleoptera and rhynchota. T. G. Vazirani, B.Sc. (Hons.), Entomological Assistant (Offg.), life history of chrysomellid betels. G. Mathai, Assistant, Insect Section.	26 26, 29 26 19 19 19
Poona. (Tel.: 2291). Dr. L. A. Ramdas, M.A., Ph.D., Director. A. K. Mallik, M.Sc., B.Sc. (Agr.), Assoc. I.A.R.I., Meteorologist. R. K. Misra, M.Sc. (Agr.), Assistant Meteorologist. P. S. Sreenivasan, M.Sc. (Agr.), Assistant Meteorologist, Statistician. K. M. Gadre, M.Sc. (Agr.), Assistant Meteorologist. Zoological Survey of India 34, Chittaranjan Avenue, Calcutta 12. 'Grams: Zoology, Calcutta. Tel.: Central 2182. Dr. M. L. Roonwal, M.Sc., Ph.D. (Cantab.), F.N.I., Assistant Superintendent: locusts. Dr. A. P. Kapur, M.Sc. (Hons.), Ph.D. (Lond.), D.I.C., Assoc. I.A.R.I., F.R.E.S., Zoologist: coccinellidea and pyralidae. K. S. Pradhan, M.Sc., Assistant Zoologist: coleoptera and rhynchota. T. G. Vazirani, B.Sc. (Hons.), Entomological Assistant (Offg.), life history of chrysomellid betels. G. Mathai, Assistant, Insect Section. Dr. B. S. Chauhan, M.Sc., Ph.D., F.Z.S., Assistant Subgrintendent	26 26, 29 26 19 19 19 19
Poona. (Tel.: 2291). Dr. L. A. Ramdas, M.A., Ph.D., Director. A. K. Mallik, M.Sc., B.Sc. (Agr.), Assoc. I.A.R.I., Meteorologist. R. K. Misra, M.Sc. (Agr.), Assistant Meteorologist. P. S. Sreenivasan, M.Sc. (Agr.), Assistant Meteorologist, Statistician. K. M. Gadre, M.Sc. (Agr.), Assistant Meteorologist. Zoological Survey of India 34, Chittaranjan Avenue, Calcutta 12. 'Grams: Zoology, Calcutta. Tel.: Central 2182. Dr. M. L. Roonwal, M.Sc., Ph.D. (Cantab.), F.N.I., Assistant Superintendent: locusts. Dr. A. P. Kapur, M.Sc. (Hons.), Ph.D. (Lond.), D.I.C., Assoc. I.A.R.I., F.R.E.S., Zoologist: coccinellidea and pyralidae. K. S. Pradhan, M.Sc., Assistant Zoologist: coleoptera and rhynchota. T. G. Vazirani, B.Sc. (Hons.), Entomological Assistant (Offg.), life history of chrysomellid betels. G. Mathai, Assistant, Insect Section.	26 26, 29 26 19 19 19
Poona. (Tel.: 2291). Dr. L. A. Ramdas, M.A., Ph.D., Director. A. K. Mallik, M.Sc., B.Sc. (Agr.), Assoc. I.A.R.I., Meteorologist. R. K. Misra, M.Sc. (Agr.), Assistant Meteorologist. P. S. Sreenivasan, M.Sc. (Agr.), Assistant Meteorologist, Statistician. K. M. Gadre, M.Sc. (Agr.), Assistant Meteorologist. Zoological Survey of India 34, Chittaranjan Avenue, Calcutta 12. 'Grams: Zoology, Calcutta. Tel.: Central 2182. Dr. M. L. Roonwal, M.Sc., Ph.D. (Cantab.), F.N.I., Assistant Superintendent: locusts. Dr. A. P. Kapur, M.Sc. (Hons.), Ph.D. (Lond.), D.I.C., Assoc. I.A.R.I., F.R.E.S., Zoologist: coccinellidea and pyralidae. K. S. Pradhan, M.Sc., Assistant Zoologist: coleoptera and rhynchota. T. G. Vazirani, B.Sc. (Hons.), Entomological Assistant (Offg.), life history of chrysomellid betels. G. Mathai, Assistant, Insect Section. Dr. B. S. Chauhan, M.Sc., Ph.D., F.Z.S., Assistant Superintendent. M. N. Datta, M.Sc., Curator, Zoological Galleries, Indian Museum.	26 26, 29 26 19 19 19 19

Indian Tea Association	Subject
Scientific Department Tocklai Experimental Station Cinnamara P.O. C. J. Harrison, B.Sc., A.R.I.C., O.B.E., Chief Scientific Officer.	1
Soil Chemistry N. G. Gokhale, B.Sc., Physical Chemist: soils and fertilisers.	2, 26
AGRICULTURAL S. K. Dutta, B.Sc. (Bom.), B.Sc. (Wales), Agriculturist: cultural methods, yield, shade factor, etc., of tea and ancillary crops.	
TEA CHEMISTRY E. A. H. Roberts, M.A., D.Phil., F.R.I.C. Biochemist. chemistry of tea leaf and its influence on quali	
PLANT PATHOLOGY E. Hainsworth, M.A., Plant Pathologist. G. M. Das, M.Sc., Ph.D., D.I.C., Entomologist.	6, 22 19
BOTANICAL W. Wight, Ph.D., Botanist.	2, 3, 4
Advisory Officers P. M. Glover, M.B.E., B.Sc., Advisory Officer, Assam Valley and 2 North Bank.	2, 6, 8, 19
R. I. MacAlpine, B.Sc., Advisory Officer, Darjeeling and Terai.	2, 6, 8, 10
INDIAN INSTITUTE OF SCIENCE Bangalore.	
Department of Biochemistry	
Dr. S. C. Pillai, Ph.D., A.I.I.Sc.: soils, fertilisers and plant nutrition.	2
Dr. C. R. Harihara Iyer, M.A., Ph.D., F.R.I.C.: soils, fertilisers and plant nutrition.	2
H. S. R. Desikachar, B.Sc. (Hons.), A.I.I.Sc.: soils, fertilisers and plant nutrition and plant chemistry.	2
Dr. K. Kutumba Reddi, Ph.D., A.I.I.Sc.: soil, fertilisers and plant nutrition and plant chemistry.	2
S. Balasundaram, B.Sc., A.I.I.Sc.: soils, fertilisers and plant nutrition and plant chemistry.	2
A. M. S. Siddiqui, B.Sc.: plant chemistry. M. Sreenivasaya, B.A., F.I.I.Sc.: biochemistry, bacteriology, and	5 22
plant husbandry. Dr. M. K. Subramanian, M.A., D.Sc.: bacteriology.	22 25
B. N. Banerjee, M.Sc.: biochemistry. Dr. K. V. Giri, D.Sc., A.I.I.Sc., F.A.Sc.: biochemistry.	25
C. R. Krishnamurthy, B.Sc. (Hons.), Ph.D.: biochemistry. R. Rajagopalan, B.Sc. (Hons.), Ph.D.: biochemistry.	25 25

UNITED PLANTERS' ASSOCIATION OF SOUTHERN INDIA

INDIA	Subject
Coonoor, Nilgiris.	Sabjec
S. Ananda Rao, M.Sc., Ag. Tea Scientific Officer, Devarshola P.O., Nilgiris.	9
V. Jayaram, B.A., B.Sc., Soil Chemist, Devarshola P.O.	2
K. S. Venkataramani, M.Sc., Botanist, Devarshola, P.O.	3
UNIVERSITIES	
UNIVERSITY OF BOMBAY	
Department of Chemical Technology	
Matunga, Bombay, 19. Tel: 61308.	
A. Sreenivasan, Lecturer in Foods and Drugs, Head of Section.	25
H. R. Pithawalla, <i>Demonstrator in Foods and Drugs</i> : enzymes and vitamins.	25
S. S. Gothoskar, Research Scholar: enzymes.	25
D. V. Rege, Research Scholar: water soluble-vitamins.	25
R. D. Siganporia, Research Scholar: food processing.	25
Y. S. Shah, Research Scholar: fat-soluble-vitamins. R. A. Kulharni, Research Scholar: water soluble-vitamins.	25 25
B. K. Vaidya, Officer-in-Charge.	200
B. M. Patel, Senior Technical Assistant Bombay University Wool	
T. K. Desai, Technical Assistant Research-Scheme (fin-	11
G. K. Wagle, Technical Assistant. anced by the I.C.A.R.)	
G. P. Damohe, Technical Assistant.	
Schools of Economics and Sociology	
AGRICULTURAL ECONOMICS SECTION	
Prof. M. L. Dantwala, Reader.	27
Dr. M. B. Desai, Lecturer.	27
Dr. V. V. Sayanna, Lecturer. CH. Shah, Investigator: Regional Survey of Gujarat, 1939-45.	27 27
R. G. Gupte, Investigator: Regional Survey, Bombay-Deccan.	27
K. N. Naik, Investigator: Co-operation.	27
Research Students	
W. B. Donde: rural labour.	27
G. S. Gouri: rural economy.	27
Merh, S. C.: marketing.	27
N. S. Pradhan: international trade in agricultural raw materials M. V. Hate: tenancy.	27
B. R. Umarji: agricultural holdings.	27 27
UNIVERSITY OF CALCUTTA	
University College of Science and Technology 35, Ballygunge Circular Road, Calcutta. (Tel: Park 2796).	
DEPARTMENT OF BOTANY	
Scheme financed by the Indian Council of Agricultural Research:	
"Breeding of Improved Types of Banana.":	0
Amal Kumar Chakravorti, M.Sc., Assistant Cytogeneticist.	

17, 18

	Subject
Imperial Chemical Industries Research Fellowship awarded by the National Institute of Sciences, India: "Plant Embryo Culture.": Jyotirmay Mitra, M.A., Research Fellow.	3
Ghosh Research Scholars (Botany), Calcutta University: (a) "Cytogenetics of Jesminum"; (b) "Cytogenetics of Morus": Miss Mridula Datta, M.A., Scholar.	9
(c) "Cytotaxonomy of Artocarpus": Shyama Sankar Bhattacharjya, M.Sc., Scholar. (All four above guided by Prof. D. C. Sarbadhikari, D.Sc.)	9
Scheme financed by Bengal Millowners' Association: "Research on the diseases of long staple cotton of Bengal": Miss Himani Datta, M.A., Research Assistant. (Guided by S. N. Banerji, M.Sc.)	6
Lucknow.	
1ango Necrosis Scheme, Indian Council of Agricultural Research	
Dr. S. N. Das Gupta, M.Sc., Ph.D. (Lond.), D.Sc. (Lond.), D.I.C. Officer-in-Charge, Mango Necrosis Scheme and Professor of Botany, Lucknow University (on leave): plant pathology and mycology.	6
Dr. G. S. Verma, M.Sc., Ph.D., F.B.S., Officiating Officer-in- Charge, Mango Nectosis Scheme, and Reader in Botany, Lucknow University: plant pathology and mycology.	6
S. N. Iyer, B.Sc. (Hons.), M.Sc., Chemical Research Assistant, Mango Necrosis Scheme: plant chemistry, biochemistry and organic chemistry.	5
M. Kamal, M.Sc., Physiological Research Assistant, Mango Necrosis Scheme: physiology and plant pathology.	3, 6
AGRA UNIVERSITY	
Agra College, Agra	
Schemes of Investigations on 'Cereal Rusts' and Testing Rust-Resistant Barleys.	
Dr. K. C. Mehta, M.Sc., Ph.D., Sc.D. (Cantab.), F.N.I., Principal,	6
Agra College, Agra, and Officer-in-Charge (Honorary). V. C. Lele, M.Sc., Assistant Mycologist.	6
L. M. Joshi, M.Sc., Research Assistant.	6
K. L. Narasimham, M.Sc., Research Assistant.	6
EAST PUNJAB UNIVERSITY	
ast Punjab Veterinary College, Hissar	
A. Aggarwala, B.Sc. (Hons.), M.R.C.V.S. (Majore), A.I.R.O., 14,	15, 16,

Principal.

pulses.

REFORM OF MALE	Subject
Balbir Singh, M.Sc., M.R.C.V.S., Professor of Pathology, 16, 19	, 21, 22, 23
Jagnandan Singh, L.V.P., Professor of Surgery.	18,
Chiraniit Lal Vohra, L.V.P., Professor of Physiology.	13, 22
G. K. Sharma, G.P.V.C., Professor of Animal Husbandry.	14, 15, 18
Khalsa College, Amritsar	
Botany Department	
Dr. P. N. Mehra, D.Sc., F.N.A.Sc., Head.	3, 4, 11
Jiwan Singh, M.Sc., Professor of Botany.	20
Ram Singh Ahuja, M.Sc., Professor of Chemistry.	24
R. S. Chopra, M.Sc., Lecturer: bryology.	3
Dr. K. S. Thind, M.Sc., Ph.D., Lecturer.	6, 20
S. K. Malhotra, M.Sc., Demonstrator: pteridophyte and cytology.	3
T. N. Khoshooa, M.Sc., Research Assistant.	4
B. R. Sharma, M.Sc., Research Scholar-cum-Demonstrator.	3
P. N. Kachroo, M.Sc., Research Scholar: liverworts cytology.	5
Government College, Hosiarpur	~,
Zoology Department	
Dr. Vishwa Nath, M.Sc., Ph.D. (Cantab.), Principal, Government	1, 13
College, Hoshiarpur, and Head of the University Zoology Depart-	
ment: cytological studies; cytology.	
Guran Lal Arora, M.Sc., University Lecturer in Zoology: entomostraca of Okha.	13
Sukh Dayal, M.Sc., Lecturer in Zoology, Government College:	
nature of yolk nucleus in spider P. paykulli; cytology.	
N. K. Gupta, M.Sc., Lecturer in Zoology, Government College:	21
studies of some tremetodes of Indian vertebrates.	
Romesh Chander, M.Sc., University Demonstrator in Zoology:	
nature of osmiophilic granules in the eggs of leech; cytology.	
Bhupinder Nath Sud, M.Sc., Curator, Zoology Museum: spermatogenesis of reptiles; cytology.	
N. P. Wadera, B.Sc. (Hons. School): nematode sperm; cytology.	
Om Prakash Grover, B.Sc. (Hons. School): sperm of a Bombay	
prawn: cytology.	des.
R. P. Jolly, B.Sc. (Hons. School): accessory organs of respiration	*
in some fishes: cytology.	
Government Agricultural College	
Ludhiana	
Dr. S. D. Nijhwan, B.Sc. (Hons.), M.Sc. (Pb.), M.S. (Kans. U.S.M.).	2
Ph.D.: soil physics; soil chemistry; soil conservation; soil	
survey and fertilizery.	
Dev Raj Chawla, M.Sc. (Agr.): soil chemistry and plant nutrition.	3
S. Inder Singh Cheema, B.Sc. (Hons.), M.Sc. (Agr.), Plant Physiology: general botany and plant physiology	4
iology: general botany and plant physiology. Matu Ram Ahlawat, M.Sc. (Agr.), M.A. (Econ.): cereals and	
pulses, M.Sc. (Agr.), M.A. (Econ.): cereats and	+

Matu Ram, M.Sc. (Agr.), M.A. (Econ.): all the common crops	Subject 7
grown in Northern India.	
S. Bishan Singh, M.Sc. (Agr): agronomy (crop breeding). S. Harinder Singh Dinsa, B.Sc. (Agr.) High Honours (Idaho), M.Sc. (Agr.): kausas horticulture.	9
S. Gurcharan Singh Sohi, M.Sc. (Agr.): insect pests of stored grain and other stored products, vegetable insect pests, and dung faura.	19
Dr. Jaswant Singh, M.A. (Columbia), Ph.D. (Michigan), F.R.E.S., (London): agricultural economics; economic planning; Agr.; marketing, Agr. policies.	27
Kharak Singh Man, B.Sc. (Agr.). Asa Singh Thind, B.Sc. (Agr.): eradication of weeds by chemical methods, especially of carthmus oxyacantha (Pohli) and cascute parasite.	4
UNIVERSITY OF MYSORE	
Agricultural College	
Hebbal, Bangalore. (Tel.: 3153).	
P. H. Rama Reddi, M.A., B.Sc. (Agr.), B.Sc. (Forestry) (Edin.), G.I.E., <i>Principal</i> .	1
Dr. B. Dasappa, B.A., B.Agr., Ph.D., A.I.C., D.I.C., Senior Lecturer in Agriculture.	2, 7
H. C. Govindu, M.Sc., Lecturer in Botany.	3
B. Sree Ramappa, B.E., Lecturer in Civil Engineering.	28 18
G. N. Srikantiah, G.M.V.C., Lecturer in Animal Husbandry. B. A. Balachowdiah, M.A., Lecturer in Agricultural Economics.	27
Dr. S. V. Govindarajan, B.Sc. (Hons.), Ph.D., D.I.C., Agricultural Chemist.	24
B. Krishnamurti, B.Sc., F.R.E.S., Government Entomologist. S. V. Venkatarayan, B.A., Plant Pathologist.	19 6
ANNAMALAI UNIVERSITY	
Department of Botany	
Dr. T. C. N. Singh, M.Sc., D.Sc., F.B.S., Professor and Head of the Department.	2, 3
K. Rangaswami, M.Sc., Senior Lecturer.	3, 4 3, 12
C. Srinivasan, B.Sc., Lecturer.	3, 12
S. Venugopalan, B.Sc., Demonstrator. V. R. Rajagopalan, B.Sc., Research Scholar.	3
A. T. Natarajan, B.Sc., Research Scholar.	3
K R Venkatesan B.Sc., Research Scholar.	3, 12
M. K. Ramamurthy, M.A., Senior Research Assistant, Indian Council of Agricultural Research.	4
Department of Zoology	
Prof. R. V. Seshaiya, M.A.: entomology—embryology and cyt-	19
alogy of Chrysocoris purburea.	

Department of Chemistry	Subjec
S. Shanmuganathan, B.Sc. (Hons.): mercuration of aromatic compound V. Thiruvenkatachari, B.Sc.: mercuration of aromatic compounds. N. Kailasam, B.Sc. (Hons.): non-volatile acids of Indian fruits: K. Kanapati, B.Sc. (Hons.): essential oil from Vetti Ver. (These four work under the guidance of Prof. K. I. Kuriyan, M.Sc., Ph.D. (Lond.).)	nds 24 24 24 24
Department of Economics	
T. S. Krishnamachari, M.A., M.Litt: agricultural economy of South Arcot District.	27
A. Subbiah, B.A. (Hons.): cost of milk supply in Chidambaram Taluk.	27
V. G. Ramakrishnaiyer, M.A.: agriculture and industry in South Arcot District.	27
	•
LITUAL LINUVERCITY	
Orissa	
Directorate of Public Instruction	
Dr. P. Misra, M.Sc. (Cal.), Ph.D. (Leeds), Principal, Sambalpur	3, 10
G. B. Singh, B.A., M.R.C.V.S., Director of Animal Husbandry and	
V eterinary Services, Orissa.	1
U. Patnaik, B.Sc. (Agr.), B.Ed.D. (Agr.), Sci. (Edn.), Livestock Officer, Office of the Director of Animal Husbandry and Veterinary Services, Orissa.	18
B. Rath, G.B.V.C., Veterinary Investigation Officer: cattle.	13
G. S. Dehury, B.G.V.C., Assistant Disease Investigation Officer: sheep and goats.	13
B. Das, G.B.V.C., Assistant Disease Investigation Officer: poultry.	13
L. N. Das, G.M.V.C., Research Assistant: sheep.	14
B. Saneal, G.B.V.C., Research Assistant: goats. K. M. Das, G.B.V.C., Research Assistant.	14
B. Patnaik, G.B.V.C., Research Assistant.	13
Dr. B. Samantarai, M.Sc., Ph.D., D.I.E., Assistant Professor of	10
Botany, Ravenshaw College, Cuttack.	3
Dr. N. K. Chatterjee, M.Sc., D.Phil., Assistant Professor of Zoology, Ravenshaw College, Cuttack,	3
S. N. Patnaik, M.Sc., Lecturer in Botany, Ravenshaw College, Cut- tack, and Research Scholar, Utkal University	3
B. Padhi, M.Sc., Lecturer in Botany, Ravenshaw College, Cuttack.	27)

G. Panigrahi, M.Sc., Lecturer in Botany, Ravenshaw College, Cuttack.

Subject

MUSLIM UNIVERSITY

Aligarh.

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Dr. M. O. Farooq, M.Sc., Ph.D. (Alig.), Ph.D. (Lond.), D.I.C., Reader in Chemistry.

Zoology Department

Dr. M. B. Mirza, B.Sc. (Hons.) (Bombay), D.Phil. at (Frankfortam-Main), F.R.M.S. (Lond.), Professor of Zoology, and Chairman, Department of Zoology: veterinary.
Dr. M. A. Basirkhan, B.Sc. (Hons.), M.Sc., Ph.D. (Alig.), Ph.D. (Canada), Lecturer in Zoology: veterinary.
Dr. M. A. H. Qadri, M.Sc., Ph.D. (Alig.), Ph.D. (Cantab), Reader in Zoology: agriculture and veterinary.
Dr. S. M. Alam, M.Sc., Ph.D. (Alig.), Lecturer in Zoology: agriculture and veterinary.

NAGPUR UNIVERSITY

College of Agriculture

Nagpur. (Tel.: 378).

Dr. R. P. Asthana, M.Sc., Ph.D. (Lond.), D.I.C. (Lond.), F.A.Sc.,	3, 6, 20, 22
S. K. Misra, M.Sc.	2
Dhannalal, M.Sc.	12
S. T. Patil, B.Agr.	18
Dr. R. S. Bhatt, M.Sc., Ph.D.	3, 20
V. B. Rasal, B.Sc. (Agr.), B.Sc. (Agr. Engg.)	28
N. M. Joglekar, M.A. (Econ.), LL.B.	27

BENARES HINDU UNIVERSITY

(Tel.: Benares 77). 'Grams: Agriculture, Benares Hindu University.

College of Agriculture	
K. Kumar, M.Sc.	2, 3, 25
Dr. R. S. Choudhry, D.Sc., Ph.D. (Cornell).	2, 3
Dr. K. N. Lal, D.Sc.	2, 3
Dr. P. B. Mathur, D.Sc.	2, 5, 25
Sant Singh, M.Sc.	2, 5
Uma Shanker Singh, M.Sc.	2, 3, 7
K. Das, M.Sc.	4
Dr. A. Lal, Ph.D. (Lond.).	6, 20, 22
M. S. Pavagi, M.Sc.	6, 20, 22
S. L. Kapoor, M.Sc.	7

(Tel.: 84089).

	Subject
Jai Ram Singh, M.Sc.	9
N. C. Ahuja, M.Sc.	18
S. P. Mookerji, M.Sc.	19
G. S. Lavania, M.A.	27

PROVINCES

MADRAS

AGRICULTURAL DEPARTMENT

R. M. Sundaram, I.C.S., Director of Agriculture. B. M. Lakshmipathy, B.E., M.E., M.R.A.S.E., Joint Director of	28
Agriculture: agricultural implements and farm machinery;	
lift irrigation from wells and application of power on Indian	
farms.	
S. N. Venkataruman, B.A., B.Sc. (Agr.), Provincial Marketing Officer, Madras.	30
A. H. Subramania Sarma:	1, 30
V. T. Subbiah Mudaliar, L.Agr., Deputy Director of Agriculture.	-, -,
P. Krishna Rao, L.Agr., Assoc. I.A.R.I., Millets Specialist.	2, 3
P. Abishekanathan Pillai, L.Agr., C.D.H. (Glas.), Deputy Director of Agriculture, Coimbatore.	
V. K. Subramania Mudaliar, L.Agr. (1st. Class), Headquarters, Deputy Director of Agriculture, Madras.	:
C. R. Srinivasa Ayyangar, L.Agr., Headquarters, Deputy Director of	
Agriculture.	-
A. Abdul Samad, Superintendent, Agricultural Research Station,	
Tirurkuppam.	
V. K. Appaji, Superintendent, Sugarcane Research Station, Anaka-palle.	1
M. Bhavani Shankar Rao, Superintendent, Agricultural Research Station, Nileshwar.	1
C. H. Venkatasaravayya Chetty, Superintendent, Agricultural Research Station, Samalkota.	1
M. P. Narasimha Rao, Superintendent, Agricultural Research Station, Maruteru.	1
K. Ramaswami, Superintendent, Agricultural Research Station, Aduthurai.	1
V. Thirumala Rao, B.Sc. (Agr.)., Lecturer in Entomology, Agricul-	10
tural College, Bapatla: crop pests and their control; pests of	
stored products and their control; biological methods of insect	
control; lac growing and bee keeping.	
M. R. Balakrishnan, B.A., B.Sc. (Agr.), Lecturer in Chemistry, Agricultural College, Bapatla.	2, 2.

M. Sanyasi Raju, M.Sc. (Wis.), Gazetted Assistant in Chemistry, Agricultural College, Bapatla: soil microbiology with special reference to Rhizobium and nitrogen fixation by legumes; availability of green manure crops; soil.	Subject 2, 22
Dr. N. Krishnaswamy, B.Sc. (Mys.), Ph.D. (Kiel), Cytogeneticist, Agricultural College, Coimbatore: genetics; plant breeding and cytogenetics; karyo—systematic studies; general botany and plant physiological anatomy.	3, 4
C. Rajashekara Mudaliar, Gazetted Assistant in Botany, Coimbatore. P. Satyanarayana, Gazetted Assistant Lecturer in Chemistry, Bapatla.	3, 4, 8 2, 5, 24, 25
 L. Venkatratnam, Plant Physiologist, Bapatla. C. Govinda Rao, Lecturer in Mycology, Bapatla. C. Balasubramaniam, Agricultural Meteorologist, Coimbatore. T. V. Rangaswami, Assistant Cotton Specialist, Coimbatore. S. Meyandi Pillay, Assistant Cotton Specialist, Narasaraopet. P. Abraham, Assistant Cotton Specialist, Palur. A. Kunhikoran Nambiar, Assistant Millet Specialist, Coimbatore. T. Gopalan Nair, Assistant Fruit Specialist, Coonoor R.S 	3, 9 20 26 3, 4, 7 3, 4, 7 3, 4, 7 9
N. S. Rajagopala Iyer, Superintendent, Fruit Station, Koduratore. M. Kandaswami, Assistant Mycologist. S. V. Parthasarathy, Assistant Physiologist. C. Krishnamurthy, Assistant Entomologist. M. Sundaram, Assistant Agril. Chemist. S. Kanakaraj David, Assistant Entomologist, Coimbatore. S. Madhava Rao, Fruit Specialist, Kodur. T. Venkataramana Reddy, B.Sc. (Agr.), M.Sc., Lecturer in Botany, Agricultural College, Bapatla: grass anatomy with special refer-	9 20 3, 4, 7 19 2, 24 19 9 3, 4, 8
ence to drought resistance: indigenous fodder grasses. T. Natarajan, B.A., B.Sc. (Agr.), Junior Lecturer in Agriculture, Agricultural College, Bapatla: agronomy and economics of field crops (sugarcane, paddy, plantains, etc.).	1
B. Appala Naidu, M.A., M.Sc. (Mad.), Gazetted Assistant to Lecturer in Botany, Agricultural College, Bapatla: phenological observations on forests; anatomy of all species of Oryza; germination of paddy under different conditions; physiology of root development; anatomy of pulses.	3
C. S. Balasubramanyam, B.A., Lecturer in Entomology, Agricultural College, Bapatla: pests of crops and fruit trees and their control: bee-keeping.	19
M. Kanti Raj, M.A., B.Sc., Headquarters, Deputy Director of Agri-	1
culture, Madras. V. Suryanarayana, M.A. (Econ.), B.A. (Bot. and Zool.), B.Sc. (Agr.), B.Ed., Gazetted Assistant in Agriculture, Agricultural College, Bapatla: agronomy of arable crops and agricultural economics.	1
Rao Bahadur P. Venkataramiah, M.A., B.Sc. (Edin.), Principal and Pulses Specialist, in Charge, Agricultural College, Coimbatore: soil science; soil surveys; animal nutrition and protein metabolism; mineral metabolism of dairy stock; agricultural	2, 5, 25

	Subjec
industries, malting of Sorghum; co-ordination of research at	
the Agricultural Research Institute, Coimbatore.	28
N. Sankaranarayanan, B.E., A.M.I.E., Estate Engineer (Civil), Agricultural College, Coimbatore: in charge of teaching civil en-	
gineering to students.	
K. C. Naik, B.Agr., M.Sc., Fruit Specialist, Kodur: propagation of tropical and sub-tropical fruits; rootstocks; hybridisation in mango; classification and nomenclature; fruit nursery production; blossom biology growth studies; agronomy, root studies, technical supervision of all research work in fruits,	
spices, drug and medicinal plants, vegetables and plantation crops in the Presidency; advisory and extension work in horticulture and pomology.	
U. Narasinga Rao, B.Sc. (Agr.), A.F.S., Coonoor: fruits, spices,	
drugs, medicinal plants, plantation crops and vegetables of temperate and warm humid zones.	
Dr. G. S. Siddappa, M.A. (Madras,), Ph.D. (Bristol), A.R.I.C., Bio-	25
chemist, Fruit Canning and Preservation Work (Madras) and	
Government Malt Factory, Coimbatore: canning and preserva-	
tion of fruits and vegetables; manufacture of malted products.	
P. A. Venkateswaran Ayyar, B.A., B.Sc. (Agr.), Superintendent,	1
M. C. Cherian, B.A. (Madras), B.Sc. (Edin.), D.I.C. (Lond.), Govern-	19
ment Entomologist, Coimbatore: mite (Acarina): pests of crops	1.5
and their control; the coconut beetle (Oryetes rhinoceros); the	
sugarcane moth borers (Diatraea sticticraspis, D. venosata and	
T. Scripophagasp.); trypetid pests of crops.	
S. Ramachandran, L.Agr., Entomologist, Coimbatore:	19
E. R. Gopala Menon, M.A., Assistant Entomologist: teaching	19
entomology at the College; research on pests of stored products, particularly <i>Lasioderma</i> and the cholam smut bug.	
K. P. Ananthanarayanan, M.A., Gazetted Assistant in Entomology:	19
teaching entomology at the College; research on paddy stem	
borer and parasites of coconut caterpillar (Nephantis serinopa).	
P. S. Narayanaswamy, B.Sc. (Agr.), Assistant Entomologist, Coim-	19
batore: control of Icerya purchasi by the predator beetle (Rodolia	
cardinalis).	
D. Marudarajan, B.A., Government Mycologist, Guntur: tobacco diseases.	20
T. S. Ramakrisnan, M.A., Assistant Mycologist, Coimbatore:	20
cotton and orange diseases; ergot.	
C. S. Krishnaswamy, B.A., B.Sc. (Agr.), Assistant Mycologist, Coimbatore: rice disease.	20
K. Krishnan Menon, L.Agr., Assistant Mycologist, Ootacamund: ergot production.	20
V. Gomathinayakam Pillai, B.Sc. (Agr.), Assistant Botanist (Cardamom Specialist), Singampatti Group, Kalladakurichi P.O.	4
M. S. Subbiah, B.A., B.Sc. (Agr.), Assistant Entomologist.	10
R. Balasubramanyan, B.A., B.Sc. (Agr.), Cotton Specialist, Coim-	3. 4. 7
batore: directing cotton breeding programme in Madras Presidency; evolution of (a) longer and finer-stapped cotton by had	

AUDI O DINO	OF IMDI	.7.
bridisation; (b) G. hirsutum types resistant to cotton stem weevil (Pempheres affinis), cotton jassids, blackarm (Phytomonas malvacearum); (c) high-yielding, early and long-stapled arboreum types suited to "Nadam" and "Salems" areas; inheritance of genetical characters in cotton; control schemes financed by the Indian Central Cotton Committee for the evolution of medium-stapled cotton for the Mungari areas, coloured medium-stapled types for the Cocanadas area, Cambodia types suited to the black-soils of ceded districts and long-staple cotton for cultivation under irrigation during summer.		ct
C. Jagannadha Rao, B.A., M.Sc., Assistant Cotton Specialist. S. M. Kalyanaraman, B.Sc. (Agr.), Assistant Specialist, Coimbatore G. Seshadri Ayyangar, M.A., M.Sc., Assistant Cotton Specialist, Adoni.	3, 4, 6 3, 4	4
N. Kesava Ayyangar, M.A., M.Sc. (Lond.), Assistant Cotton Specialist, Siruguppa: in charge of breeding Hirsutum types suited to the black soils of ceded districts, both under irrigated and rainfed conditions.	3, 4	1
T. K. Balaji Rao, L.Agr., <i>Paddy Specialist</i> , <i>Coimbatore</i> : improvement of rice by breeding and better agronomic practices; fundamental research on rice genetics and mutations induced by chemicals.	4, 7	7
M. B. V. Narasinga Rao, B.A., B.Sc. (Agr.), Assoc. I.A.R.I., Assistant Paddy Specialist, Pattambi: improvement of rice on the West Coast under heavy rainfall conditions; cultivation of pineapple and cucumbers.	3, 4, 7	7
K. B. Viswanadham, B.Sc. (Agr.), Assistant Paddy Specialist, Coimbatore: improvement of rice; breeding strains resistant to Piricularia oryzae: general agronomy of rice.	3, 4, 7	7
S. N. Chandrasekhara Ayyar, M.A., Government Lecturer and Systematic Botanist: teaching of agricultural botany and systematic work at the Madras Herbarium; acclimatisation trials of plants, including forage plants.	3, 8	}
Paul D. Karunakar, B.Sc. (Iowa), M.Sc. (Rutgers), A.R.I.C., Agri- 2 cultural Chemist.	2, 5, 22, 24	
Dr. S. Kasinathan, B.A., Ph.D. (Lond.), Assistant Agricultural Chemist: teaching chemistry at the College; biochemical research on soils and plants.	2, 25	
T. Rajagopalan, B.A., M.Sc., Gazetted Asistant in Chemistry: 2 teaching chemistry at the College; preservation of potato, cashew nut, etc., biochemical research on soils and plants.	2, 5, 24, 25	
T. R. Narayanan, B.A. (Cantab.), B.Sc. (Agr.), Plant Physiologist: plant nutrition, especially minor elements.	3, 4, 5	
G. K. Chidambaram, B.A. (Hons.), Soil Survey Officer: soil survey 2 in relation to fruit growing.	2, 5, 24, 25	
C. M. John, B.A., Oilseeds Specialist, Coimbatore:	3, 4 1, 9	
G. Venkatanarayana, B.Sc. (Agr.), Superintendent, Agricultural Research Station, Nileshwar: coconut.		
C. R. Seshadri, B.A., B.Sc. (Agr.), Assistant (Vilseeds Specialist, Tindivanam: groundnut storage.	1, 3, 4, 7	

S. Sampath, M.A., Cytogeneticist: rice, millets and fruit crops with a view to obtaining high-yielding polyploids adapted to many environments.	Subject 3, 4
	1, 3, 4, 7
ANIMAL HUSBANDRY DEPARTMENT (Tel.: 84087).	
K. S. Nayar, G.B.V.C., M.R.C.V.S., D.T.V.M., Joint Director of Animal Husbandry, Madras.	18
T. Murari, B.Sc., F.L.S., F.R.S.A., Dip. Rural Econ. (Oxon.), Dip-Agr. (Aberystwyth), Livestock Development Officer, Madras. (Tel.: 3563).	18
G. R. Viswanthan, G.M.V.S., P.G. (Mukteswar), Superintendent: Serum Institute, Ranipet.	1
S. Vaidyanatha Mudaliar, G.M.V.C., Principal, Madras Veterinary College. (Tel.: 3212.).	23
M. Anantaraman, M.A., M.Sc., Helminthology Research Officer, Madras.	21
R. Venkataraman, G.M.V.C., Research Officer, Ranikhet Disease Vaccine Production Scheme, Madras Veterinary College, Madras.	22
M. Ramakrishnan, G.M.V.C., Veterinary Investigation Officer,	16
Ranipet. T. Anantapadmanabhan, G.M.V.C., Assistant Disease Investiga-	16
tion Officer, Ranipet: sheep and goats. A. R. Madhusudan, G.M.V.C., Assistant Disease Investigation	16
Officer, Ranipet: poultry. A. Krishnaswami, G.M.V.C., Research Officer for the collection and collation of information on the indigenous drugs used in veterinary medicine from ancient literature and sanskrit manuscripts.	
K. T. Benjamin, Superintendent, Livestock Research Station, Hosur Cattle Farm.	14
 T. Seshachalam Nayudu, Superintendent, Dairy Farm, Waltair. C. Krishna Rao, G.M.V.C., B.V.Sc., Superintendent, Cattle and Sheep Farm, Kurukuppi. 	17 14
 H. Narahari Rao, Poultry Development Officer, Madras. P. K. Krishnan Nambiar, Sheep and Goats Development Officer, Hosur Cattle Farm. 	18 18
P. Ananatan Nair, Superintendent, Livestock Research Station, Lam. M. C. Chellam, Special Officer for Artificial Insemination, Madras. I. Muhammad Azizuddin, B.A., G.M.V.C., B.V.Sc., Ph.D. (Edin.), Lecturer in Bacteriology, Madras Veterinary College.	14 14 22
K. P. Chandrasekharan, G.M.V.C., B.V.Sc., Lecturer in Pathology, Madras Veterinary College.	16

FOREST DEPARTMENT

(Tel.: 86441).

M. Kesavan Unni Nayar, B.A. (Hons.), I.F.S., Chief Conservator of 1, 2, 10, 11 Forests, Madras. Senior Administrative Officer, Controlling Research Office.

REPUBLIC .	OF INDIA
M. Srinivasa Raghava Acharya, B.A., Provincial Silviculturist, Ootacamund.	Subject 2, 10
K. N. Raghavan Nair, B.A., B.Sc. (Edin.), Assistant Provincial Silviculturist.	10
C. P. Bhimayya, B.A., Assistant Conservator of Forests: attached to the Provincial Silviculturists Division, Ootacamund for soil conservation work, The Nilgiris.	2
N. Thirumurti, M.A., I.F.S., Forest Utilisation Officer, Madras. (Tel. 86937).	11
ВОМВАҮ	
DEPARTMENT OF AGRICULTURE	
B. N. Uppal, M.B.E., Ph.D. (Iowa), F. N.I., Director of Agriculture, Bombay Province, Poona: administration and research. (Tel.: 2088).	1, 6, 20
D. A. Gadkari, B.E., A.M.Inst.C.E. (Lond.), M.I.E. (Ind.), B.S.E. (I.), Joint Director of Agriculture (Engineering), Bombay Province, Poona: administration and research. (Tel. 3335.).	1, 2, 28
M. B. Ghatge, B.Agr., Ph.D. (Wales), F.S.S. (Lond.), Deputy Director of Agriculture (Seed Multiplication and Extension), Poona: "Grow More Food" campaign, seeds.	27
R. D. Rege, B.A., M.Sc. (Bom.), Ph.D. (Lond.), Associate I.I.Sc., Deputy Director of Agriculture (Research Education), Poona: sugarcane. (Tel.: 2088).	2, 3, 25
V. C. Pavate, B.Agr., Deputy Director of Agriculture (Manures, Fertilizers and Rural Development), Poona.: administration. (Tel.: 2666).	20
R. S. Basrur, B.E., B.A.S. (I.), Mechanical Cultivation Engineer to Government, Bombay Province, Poona: mechanical cultivation. (Tel.: 3062).	28
Hari Singh, M.B.E., B.Sc. (Edin.), Soil Conservation Officer, Bombay Province, Poona: soil conservation. (Tel.: 2151).	2
P. J. Patel, B.Agr. (Bom.), M.Sc. (Iowa), B.A.S. (I.), Agricultural Engineer to Government, Bombay Province, Poona: agricultural engineering. (Tel.: 2128).	28
L. S. S. Kumar, M.Sc. (Lond.), A.R.C.S., D.I.C., Economic Botanist to Government, Bombay Province, Poona, and Principal, College of Agriculture, Poona: plant breeding, genetics, ecology of grasslands: agronomic technique, etc. (Tel.: 2561).	3, 4, 7, 8
J. A. Daji, M.Agr., B.Sc., Ph.D. (Lond.), Agricultural Chemist to Government, Bombay Province, Poona: fertilizers and soil fertility. (Tel.: 2561).	2, 5
P. N. Driver, M.A., Professor of Agricultural Economics, College of Agriculture, Poona: farm cost studies. (Tel.: 2561).	27
S. R. Gandhi, M.Agr., Horticulturist to Government, Bombay Province, Poona: horticulture. (Tel.: 2561).	9, 30
M. K. Patel, M.Sc., Ph.D. (Iowa), Plant Pathologist to Government, Bombay Province, Poona: plant diseases including bacterial	3, 20

diseases. (Tel.: 2561).

R. M. Chaudhari, B.Agr., Professor of Agronomy, College of Agriculture, Poona: agronomy. (Tel.: 2561).	Subject 1
A. A. Vasavda, B.Agr., Professor of Agricultural Engineering, Physics and Mathematics, College of Agriculture, Poona: agricultural engineering. (Tel.: 2561).	28
S. Soloman, Ph.D. (Bom.), M.S. (California), Assistant Professor of Botany, College of Agriculture, Poona: plant breeding and plant physiology. (Tel.: 2561).	3, 4
M. N. Kamat, B.Agr., M.S. (Minnesota), Assistant Professor of Mycology, College of Agriculture. Poona: plant diseases. (Tel. 2561)	20
B. G. Oka, B.Agr., Professor of Animal Husbandry and Dairying,	
College of Agriculture, Poona: animal husbandry and dairying. H. G. Pandya, Ph.D. (Bom.), Assistant Professor of Agricultural Chemistry, College of Agriculture, Poona: general chemistry. (Tel.: 2561).	24
U. K. Kanitkar, B.A. (Hons.), M.Sc., Professor of Plant Physiology, College of Agriculture, Poona: plant physiology. (Tel.: 2561.).	3
P. M. Varma, M.Sc., Virus Entomologist, Poona: virus entomology. (Tel.: 2561).	19
S. P. Capoor, M.Sc. (Agra), Ph.D. (Lond.), Virus Pathologist, Poona: virus diseases of plants. (Tel.: 2561).	6
V. M. Chavan, B.Agr., Deputy Director of Agriculture (Crop Research), B.P., Poona: cereals. (Tel.: 2561).	3, 4
R. S. Koshal, M.Sc., Statistician, Department of Agriculture, Poona. agricultural statistics. (Tel.: 2561).	29
M. K. Shirole, B.Agr., B.A.S. (I.), Land Utilization Survey Officer, Bombay Province, Poona: survey and classification of cultivable waste lands.	2
V. G. Sharma, M.Sc., Statistical Officer under the Statistician, Department of Agriculture, Poona: agricultural statistics.	29
R. B. Gode, M.Sc., Compost Development Officer (Urban), Poona: fertilizers.	2, 25
B. A. Nazareth, B.Agr., Assistant Horticulturist to Government, B.P., Poona: horticulture.	9
I. A. Sayed, B.Agr., Assistant Horticulturist, Scheme for Extension of Vegetable and Fruit Cultivation in Bombay Province, Poona: horticulture.	9, 30
K. I. Shaikh, B.Agr., Potato Extension and Supply Officer, Poona: potato extension.	1
R. S. Dubhashi, Superintendent, Vegetable Development Scheme, Poona: vegetable development.	1
N. R. Bhat, B.Agr., Ph.D. (Cambridge), Statistical Officer, Office of the Deputy Director of Agriculture (Crop Research), B.P., Poona: agricultural statistics and plant genetics.	4, 29
G. B. Deodikar, B.Sc. (Bom.), LL.B., Ph.D. (Bom.), Cytologist under the Economic Botanist to Government, B.P., Poona: cytogenetics.	4
H. M. Desai, B.Agr., M.Sc. (Cornell, U.S.A.), Principal, College of Agriculture, Dharwar: agronomy.	1
B. H. Patil, B.Agr., Professor of Agronomy, College of Agriculture, Dharwar: agronomy.	1

N. Narayana, M.Sc., Ph.D., Professor of Agricultural Chemistry, College of Agriculture, Dharwar: biochemistry of foods.	Subject 2, 25
K. C. Desai, B.Agr., Ph.D. (Cornell, U.S.A.), Professor of Agricultural Botany, College of Agriculture, Dharwar: physiology of virus-affected plants.	3.
D. S. Rangrao, B.Sc. (Agr.), (I. class Hons.), B.A., Professor of Mathematics and Statistics, College of Agriculture, Dharwar: crop cutting experimental survey.	29,
S. A. Rajarao, M.Sc., Professor of Agricultural Entomology, College of Agriculture, Dharwar: sugarcane pests.	19
R. S. Deshpande, M.Sc., Ph.D. (Lond.), Professor of Plant Pathology, College of Agriculture, Dharwar: plant diseases.	6, 20
H. R. Arkeri, B.Sc. (Agr.), Professor of Agronomy, College of Agriculture, Dharwar, on deputation for training abroad: agronomy.	1
S. K. Goni, B.Sc. (Agr.), Professor of Animal Husbandry and Dairying, College of Agriculture, Dharwar, on deputation for training abroad: animal husbandry and dairying.	14, 17, 18
V. P. Bhide, B.Sc. (Agr.), Ph.D. (Bom.), Ph.D. (Iowa), Professor of Bacteriology College of Agriculture, Dharwar: general bacteriology.	22
S. R. Dhareshwar, B.Agr., Professor of Horticulture, College of Agriculture, Dharwar: horticulture.	9
V. P. Gokhale, B.Agr., Assistant Plant Pathologist, Wheat Rust Rust Scheme, Mahableshwar: wheat rust.	6
N. B. Patwardhan, B.Agr., Officer I/c Agricultural Research Station, Padegaon: sugarcane.	1
M. M. Kibe, M.A., B.Sc., Biochemist I/c Biochemical Section of the Scheme for Research and Extension Work on Rice in Bombay Province, Karjat: rice.	2, 5
G. B. Patel, M.Agr., M.Sc. (California), Cotton Botanist, Bombay Province, Surat: cotton.	4
D. S. Sheth, M.Sc. (U.S.A.), Cotton Breeder, North Gujarat, Viramgam: Cotton.	4
B. J. Thakar, B.Agr., Cotton Breeder, Broach: cotton.	4
S. G. Kelkar, B.Agr., Cotton Breeder, S.M.C., Dharwar: cotton. T. R. Khadilkar, B.Agr., M.Sc., Cotton Breeder, Khandesh, Jalgaon:	4
J. K. Basu, M.Sc. (Cali.), Ph.D. (Lond.), Soil Physicist to Government, B.P., Sholapur: soil science, soil survey, dry farming and	2
soil conservation. L. Shrinivas, B.Sc. (Agr.), Supervisor, Contour Strip Cropping Scheme, Sholapur: contour strip cropping.	2
M. A. S. Iyengar, B.Agr., Land Improvement Investigator, Sholapur: erosion studies: soil conservation.	2
S. S. Sirur, Soil Survey Officer, Scheme for the Survey of Lift Irrigation Projects in Bombay Province: soil survey.	2
V. D. Tagare, B.Sc., B.Agr., Alkali Soil Investigator, Sholapur: reclamation of alkali soils.	2
D. H. Gokhale, M.Agr., B.Sc., Principal, Soil Conservation Training Institute, and Superintendent, Agricultural School, Sholapur: dry farming and soil conservation.	2

S. V. Rama Rao, B.E., A.M.I.E. (Ind.), Divisional Soil Conserva-	Subject 2
tion Officer, S.D., Bijapur: soil conservation. G. V. Patel, B.E., B.A.S. (I.), Divisional Soil Conservation Officer,	2
 N.D., Surat: soil conservation. S. S. Maralihalli, B.Agr., Plant Breeder and Officer I/c Crop Breeding Station, Bijapur: plant breeding. 	4
P. S. Pandya, B.Agr., Plant Breeder and Officer I/c Cereal Breeding Station, Niphad: cereal breeding.	4
M. S. Pandya, M.Agr., Plant Breeder and Officer I/c Agricultural Research Station, Bhuwa: plant breeding.	4
G. T. Babriwala, B.Sc. (Agr.) (Hons.), Plant Breeder and Officer I/c Rice Breeding Station, Dharwar: rice breeding.	4
ANIMAL HUSBANDRY DEPARTMENT	
L. Sahai, M.Sc., M.R.C.V.S., Director of Animal Husbandry and Veterinary Science, Bombay Province, Poona.	1
S. R. Chadha, B.Sc., M.R.C.V.S., Principal, Bombay Veterinary College, Parel, Bombay.	1
R. N. Naik, G.B.V.C., Bacteriologist, Bombay Veterinary College, Parel, Bombay.	18
K. R. S. Aiyer, G.B.V.C., Assistant Professor, Bombay Veterinary College, Parel, Bombay.	18
S. G. Dixit, G.B.V.C., Assistant Disease Investigation Officer (Poultry), Poona.	18
S. P. Deshpande, G.B.V.C., Disease Investigation Officer, Bombay Province, Poona.	18
S. L. Manjrekar, G.B.V.C., Assistant Disease Investigation Officer (Sheep and Goats), Poona.	18
S. Ram Mohan Rao, M.Sc., D.Sc., Parasitologist, Civil Veterinary Department, Bombay.	18
D. B. Khole, B.Agr., Associ. I.D.I., Livestock Expert to Government, Bombay Province, Poona.	1
B. B. Jamaspijina, B.Agr., Poultry Development Officer, Poona. S. S. Khot, B.Agr., Officer I/c Sheep Breeding, Poona. G. S. Godbole, B.Agr., Dairy Development Officer, Poona.	1 1 1
WEST BENGAL	

DIRECTORATE OF AGRICULTURE, ANIMAL HUSBANDRY AND FISHERIES

Writers' Buildings, Calcutta.

Agriculture Branch

K. K. Ghosh, I.A.S., Director of Agriculture. (Tel.: Writers' Buildings Extn. 241.)

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L. C. Sikka, Ph.D. (Glas.), B.Sc., Assoc. I.D.I., Milk Commissioner- 1, 13, 14, cum-Administrator, Haringhata Farm. (Tel.: Writers' Build- 15, 17, 18 ings—Extn. 244.)

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S. Chatterjee, M.Sc., Ph.D. (Lond.), Assistant Mycologist. 3, 6, 20, 22

S. Banerjee, M.Sc., Ph.D. (Lond.), Entomologist. 3, 6, 19, 23

R. K. Dey, M.Sc., Assoc. I.A.R.I., Entomologist, Paddy Pest Scheme 3, 6, 19, 23

D. Bose, M.Sc., Statistician. (Tel.: Writers' Buildings—Extn. 248.)

M. N. Basak, M.Sc., Provincial Biochemist. (Tel.: Writers' Buildings—Extn. 249).

S. Digar, M.Sc., Dip. Agr. (Cantab.), Assistant Agricultural Chemist. 2, 24

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Dr. S. K. Mukherjee, M.Sc., Ph.D., Curator of the Herbarium:

systematic botany and taxonomy.

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- N. K. Chowdhury, M.Sc. (Dac.), M.S. (British Columbia), Superintendant of Fisheries: preservation and processing of fish and utilization of fish by-products: utilization of shark skin, fin and flesh. (Tel.: Park 2904).
- J. C. Sen Gupta, M.Sc. (Dac.), Superintendent of Fisheries: fish production and development: limiting factors for nursery and stocking tanks for proper growth of carp.
- A. N. Bhattacherji, B.Sc., B.T., District Fishery Officer: fish production and development; reclamation of defective pond bottom.
- S. M. Banjerjee, B.Sc., *District Fishery Officer*: utilisation of shark liver: the study of relation between the different spices of shark available in West Bengal Coast, and the vitamine and liver contents of the same.
- P. Mazumder, B.Sc., *Fishery Overseer*: fish production and development: the study of the limiting factors responsible for fish growth in nursery, rearing and stocking tanks.
- P. Mukherji, B.Sc., *Fishery Overseer*: fish production and development: destruction of submerged vegetation in pond fisheries by micro doses of chemicals, non-poisonous to fish.
- Protap Mukherji, Fishery Overseer: spawn transport; control of spawn mortality during transport. (Tel.: Park 2904.)
- Sujit Chakrabarti, Fishery Overseer: fish mortality; to investigate into the reasons of sudden mortality of fish in pond fisheries and remedial measures thereof.

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	Director of Agriculture, United Provinces, Lucknow. (Tel.: 690). Vacant., Pathologist to Government, U.P., Kanpur: potato; sugar-	
	cane; diseases of fruit trees; bajra smut.	
	Dr. B. K. Mukerji, Ph.D. (Lond.), D.Sc. (Alld.), Director, Sugar-	2, 4, 24
	cane Research, Shahjahanpur: agronomic and genetical problems of sugarcane. (Tel.: 9).	
	Vacant., Agricultural Chemist to Government, U.P., Kanpur: sur-	
	vey of soils in the U.P.; alkaline soils and problems of manur-	
	ing and plant nutrition. Dr. T. R. Mehta, B.Sc., Assoc. I.A.R.I., Officiating Economic Bota-	3, 4
	nist (Oilseeds), Kanpur: linseed; groundnut; mustard sesa-	٥, ١
	mum; safflower, jwar; bajra; sawan; mandua; maize;	
	sunn hemp; arhar; urd; mung and cotton. Dr. K. N. Lal, M.Sc. (Alld.), Ph.D. (Edin.), Entomologist, Kanpur:	6, 8, 19
	sugarcane; mango pests; pink boll in cotton. (Tel.: 3277).	
	Dr. A. K. Mitra, M.Sc. (Luck.), Ph.D. (Cantab.), Economic Botan-	3, 4
	ist (Paddy), Kanpur: agronomy and genetics of rice, barley and gram.	
	Ram Surat Singh, L.Agr., B.Sc. (Horti.) (Reading), Deputy	9
	Director Horticulture, Lucknow: hill and plain fruits. (Tel. 504). Dr. Radha Raman Agarwal, M.Sc., Ph.D. (Alld.), Assistant Agri-	2, 23, 24
	cultural Chemist, Agricultural College, Kanpur.	2, 20, 4 f
	P. S. Gupta, M.Sc. (Luck.), M.Sc. (Lond.), Assistant Paddy Special-	4
	ist, Nagina (Bijnor): breeding paddy. Dr. B. N. Pramanik, M.Sc. (Luck.), Ph.D. (Lond.), Research	24
	Assistant, Sugarcane Chemist, Shahjahanpur: chemistry of	

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Mohd. Anwar Ahmad Ansari, M.Sc., Assistant Economic Botanist,

Dr. Bhola Nath Singh, D.Sc., M.Sc., F.N.I., F.N.A.S., F.A.S.C.,

sugarcane.

Bulandshahr: breeding of cotton.

Crop Physiologist, Lucknow.

Kunwar Kishan, M.A., Statistician, Lucknow.

	Subject
D. N. Garg, B.Sc. (Agr.), M.Sc. (Bot.), Junior Plant Protection Officer, Kanpur.	6, 19
Chunni Lal Mehrotra, M.Sc., Soil Chemist, Kanpur: soil survey scheme.	2, 24
Vacant., Research Assistant Soil Chemist, Hill Fruit Research Station, Chaubattia, Almora, U.P.: survey of soils in the kumaun hills orchards; problems of fruits and fruit soils.	
Z. A. Siddiqi, M.Sc., Research Assistant Entomologist, Chaubattia, Almora, U.P.: hill fruit pests.	6, 19
Sohan Lal Gupta, M.Sc., Officiating Research Assistant, Mycologist, Chaubattia, Almora, U.P.: hill fruits.	6 9
Dr. Shanker Saran Saxena, M.Sc., Ph.D., (Lond.), Officiating Cane Physiologist, Shahjahanpur: physiology.	3
B D. Gupta, M.Sc., Assoc. I.A.R.I., Cane Entomologist, Shahjahanpur.	19
Rama Rao Panje, M.A., M.Sc., Dip., European languages, Cane Agronomist, Shahjahanpur.	2
Kirtikar, M.Sc. Assoc. I.A.R.I., Cane Mycologist, Shahjahanpur.	20
N. K. Das, M.Sc., Assoc. I.A.R.I., Soil Chemist, Central Sugarcane Research Station, Shahjahanpur.	24
S. Subramonia Iyer, M.B., F.S.S., Statistician, Central Sugarcane Research Station, Shahjahanpur.	29
Gur Prasad Kapoor, B.Sc. (Agri.), M.Sc., Cane Agronomist, Muzaffarnagar.	2
Dr. Bhola Nath Lal, M.Sc., Ph.D. (Lond.), Deputy Director, Fertilizer and Manure, U.P., Lucknow: town refuse composting.	· 25
Lakshmi Prakash, M.Sc., U.P. Town Compost Officer: town refuse composting.	25
Pearey Lal Chaturvedi, M.Sc., Assoc. I.A.R.I., Research Assistant Entomologist, Kanpur: pests of fruits and fruit trees in the plains of U.P.	19
B. M. Dabral, Assistant Maize Specialist, Maize Breeding Scheme, Kanpur.	3, 4
NIMAL HUSBANDRY RESEARCH WORKERS. (Tel.: Lucknow 450.)	
R. L. Kaura, D.V.M., M.R.C.V.S., Director of Animal Husbandry, United Provinces, Lucknow: direction and re-organization of research.	1, 14
B. N. S. Chowdhary, B.Sc., M.R.C.V.S., Joint Director of Animal Husbandry, United Provinces, Lucknow: direction, Animal Husbandry (Livestock and Poultry Farms), Animal production (Dairving), Immunology (Biological products), (Tel. 1893)	1, 14, 17, 18, 22
(Dairying), Immunology (Biological products). (Tel. 188.) Ram Narain Mohan, L.V.P., Veterinary Investigation Officer, United Provinces, Mathura: immunisation of cattle against Rinderpest, study of casual strains of Haemmorrhagic Septicaemia and use of thick agar wash formolished vaccine, miscellaneous disease problems of domestic livestock.	16, 21, 22
K. Govinda Rau, B.A., G.M.V.C., Officer in Charge, Biological Products Section, United Provinces Luckness manufactures and)) ~ ~ ~

research on sera and vaccine.

	Subject
R. B. Singh, M.Sc., Ph.D., Animal Geneticist, United Provinces.	14
N. C. Das Gupta, B.Sc., Research Officer, Bharari, District Jhansi: animal nutrition.	15
R. L. Pandey, Poultry Development Officer, United Provinces,	14
Lucknow: poultry breeding.	
S. S. Bhatia, I.D.D., Dairy Development Officer, United Provinces, Lucknow: dairy technology and dairy development.	17
H. C. Joshi, G.B.V.C., Gowshala Development Officer, United Provinces, Lucknow: gowshalal development and improvement.	14
S. C. Seth, B.Sc., <i>Pharmacologist and Chemist</i> : testing the indigenous drugs for their efficacy in veterinary treatment and	25, 27
manufacture of animal husbandry pharmaceuticals. P. G. Pande, M.Sc., M.R.C.V.S., Principal, U.P. College of Veterinary Science and Animal Husbandry, Mathura: organization and guidance of veterinary education and research in United	1
Provinces. (Tel.: 33.)	10
C. V. G. Choudary, B.Sc., M.R.C.V.S., Professor of Anatomy, U.P., College of Veterinary Science and Animal Husbandry, Mathura: animal anatomy.	13
Bawa Sarbendar Singh, M.R.C.V.S., Professor of Animal Husbandry, U.P. College of Veterinary Science and Animal Husbandry,	18
Mathura: animal husbandry. S. M. H. Shah, B.Sc., M.R.C.V.S., Professor of Materia Medica, U.P. College of Veterinary Science and Animal Husbandry,	4400000
Mathura: Materia Medica and pharmacology. B. P. Pande, D.Sc., Professor of Parasitology, U.P. College of Veter-	21
inary Science and Animal Husbandry, Mathura: helminthology. R. N. Singh, M.Sc., Ph.D., Farm Manager, District Demonstration	17
Farm, Mathura: dairying. M.R. Mahajan, M.R.C.V.S., Professor of Physiology, U.P., Veterin-	13
ary College, Mathura: physiology. G. S. Thapar, M.Sc., Ph.D., Reader, Lucknow University, Lucknow:	21
helminthology. James N. Warner, M.Sc., Professor, Agricultural Institute, Allah-	17
abad: dairy technology.	
H. K. Lall, B.Sc., M.R.C.V.S., Deputy Director of Animal Husbandry, United Provinces, Maerut.	
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ment. B. S. Sawhney, M.A. (Cantab.), Officer on Special Duty, Depart-	1, 4,
ment of Agriculture, East Punjab, Simla.	
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(Lond.), Cereal Botanist, Jullundur City.	
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Jullundur City: wheat.	
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Jullundur City: maize.	
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Cantonment.	
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cultural Chemist, Jullundur City.	-
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Dr. Mulk Rao Madhok, B.Sc. (Agr.) (Pb.), Ph.D. (Rutgres), Provin-	.22 25
cial Biochemist, Ambala City: compost.	22, 25
S. Amir Singh Sidhu, B.Sc. (Agr.) (Pb.), B.Eng. (Sheffield), Agricul-	28
cultural Engineer, well boring operations and tube well installations.	~
Ambala City.	

Lakhshmi Chander Suri, Diploma in Eng. (Mogholpura), Agricultural Engineer (Implements), Ambala City.	Subject 28
S Amrik Singh, B.Sc. (Agr.) (Pb.), Assistant Entomologist, Plant Protection, Jullundur City.	19
Pritam Lal Sharma, B.Sc. (Agr.) (Pb.), Assistant Entomologist, Beekeeping, Katrain, District Kangra.	19
Asa Nand Kalra, M.Sc. (Agr.) (Pb.), Assistant Sugarcane Entomologist, Jullundur City.	19
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Puran Anand Adlaka, M.Sc. (Agr.) (Pb.), Assistant Sugarcane Physiologist, Jullundur City.	3
S. Sher Singh Mangat, M.Sc. (Agr.) Pb.), Assistant Sugarcane Chemist, Jullundur City.	5
Hukam Chand, B.Sc. (Agr.) (Pb.), Fodder Botanist, Sirsa, District Hissar: post-graduate training at I.C.A.R.	8
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proceeded on leave abroad). S. Gurmel Singh, B.Sc. (Agr.) (Pb.), M.A. (Pb.), Assistant Marketing Officer: development.	27
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Government Livestock Farm, Hissar.	
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Gurdaspur. Karam Chand, L.V.P., Assistant Disease Investigation Officer:	16, 22
poultry. Tek Chand, L.V.P., Professor of Parasitology, East Punjab Veterin-	17
ary College, Hissar. S. Jagat Singh, L.V.P.: indigenous goat breeding.	14
Bishnu Datt: indigenous sheep breeding.	14
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Dr. C. L. Dhawan, M.Sc., Ph.D., Assistant Research Officer: research on soil mechanics and movement of moisture in soil profiles and effect of land reclamation on soils.	2
B. B. Lal Bhatnagar, M.Sc., Assistant Research Officer: effect of land reclamation on constituents and other soil characteristics.	2
FORESTRY	
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P. C. Ghosh, B.Sc. (Hons.), Patna, Deputy Director of Agriculture,	7
Patna Range, Patna: farm crops. B. N. Sinha, B.Sc. (Cantab.), Senior Marketing Officer, Kanke:	7. 18
farm crops and livestock.	
Dr. S. Anwarullah, Principal, Bihar Agricultural College, Sabour, Bhagalpur.: soils; fertilizers; plant nutrition.	-

Syed Abdul Rufay, M.Sc., Sugarcane Pathologist.	Subject 6
Dr. H. N. Mukherjee, M.Sc., Ph.D.: soils; fertilizers; plant nutrition.	2
M. P. Singh, M.Sc.: economic botany. A. B. Lal, M.Sc.: economic botany.	3
B. K. Sinha, M.Sc. (N.Z.), Entomologist.	3, 4 19
S. L. Sharma, M.Sc., Sugarcane Mycologist.	20
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A. D. Chhugani, B.Sc., Agricultural Engineer, Patna: irrigation	28
from tube-wells.	
Dr. R. H. Richaria, M.Sc., Ph.D. (Cantab.), Economic Botanist,	7, 8
Sabour, Bhagalpur: improved food, fodder and oil seed crops.	
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Sabour, Bhagalpur: agricultural chemistry.	
K. L. Khanna, B.Sc. (Agr.), Sugarcane Specialist, Bihar Pusa,	7
Darbhanga.	
R. S. Roy, M.Sc. (Calif.), Physiological Botanist, Sabour, Bhagalpur:	3, 9
periodicity of bearing on mangoes.	10
S. B. Das Agarwala, B.Sc. (Agr.), Ph.D. (Lond.), Sugarcane Entomologist, Bihar Pusa, Darbhanga.	19
G. S. Pandey, Dip. C.A.C., N.Z.	
K. D. Sharma, M.Sc., Assoc. I.A.R.I. Agronomists.	12
M. B. Lal, M.Sc.	
K. S. Bandopadhyay, M.Sc., Statistician.	29
A. S. Chakravarty, M.Sc., Ph.D., Gur Chemist.	5
Sheonath Prasad, M.Sc., Soil Biochemist.	5, 25
S. C. Sen, M.Sc., Sugarcane Chemist.	5
A. K. Sarkar, B.Sc., Assistant Marketing Officer.	11
Prof. T. G. Jacob, Agr. Engineering.	28
Prof. P. R. H. Acharjee, M.A., Agl. Economics.	27
Prof. M. H. Jani, B.Sc. (Edin).	1, 7
B. K. Dutt., M.Sc., Pathologist.	6

ANIMAL HUSBANDRY DEPARTMENT

S. K. Sen, B.Sc. (Cal.), M.R.C.V.S., Animal Husbandry Officer, 1, 14, 15, Bihar, Patna: administration and organisation of research and development schemes in animal husbandry and dairying.

	Subject
H. K. Roy, G.B.V.C., Technical Assistant, Patna: assisting in organisation and administration of research and development	8, 18
schemes. B. Prasad, C.D.D., C.C.A. (Wales), Goshala Development Officer,	14
Bihar, Patna. B. M. Prasad, G.B.V.C., Poultry Development Officer, Bihar, Patna. R. P. Singh, G.B.V.C., Associate I.D.R.I., Superintendent, Bachaur	18 17
Cattle Breeding Farm, Pusa, Bihar. S. T. Ecka, B.Sc. (Agr.), Superintendent, Hariana Cattle Breeding Farm, Dumraon, Bihar.	17
S. Singh, I.D.D., Assistant Dairy Development Officer, Patna, Bihar. J. Swami, I.D.D., Dairy Surveyor, Patna, Bihar.	17 17
N. D. Singh, G.B.V.C., Chief Instructor, Stockmen Training Centre, Darbhanga, Bihar.	18
ORISSA	
AGRICULTURAL DEPARTMENT	
(Tel.: Cuttack 121. 'Grams: Diragric.)	
R. P. Padhi, M.A., I.A.S., Director of Agriculture and Food Production, Orissa.	1
Dr. H. K. Nandi, M.Sc. (Cal.), Ph.D. (Lond.), F.L.S., F.R.M.S., Deputy Director of Agriculture, Orissa. (Tel.: 265).	1
D. Misra, B.Agr. (Nag.), Dip. in Agr. (Cantab.), Assistant Director of Agriculture, In Charge Eastern Range, Cuttack.	1, 12
D. Behura, B.Sc. (Pat.), B.Sc. (Durham), Assistant Director of Agriculture, In Charge Western Range, Sambalpur.	1
P. D. Dixit, M.Sc. (Luck.), Assoc. I.A.R.I., Assistant Director of Agriculture, Cuttack.	1
R. Behera, B.Sc. (Agr.), Dip. in Agr. (Edin.), Assistant Director of Agriculture, Seed Multiplication Scheme.	1
Brundaban Misra, B.Sc. (Utkal), B.Sc. (Hons.) (Wales), Assistant Director of Agriculture, Cuttack.	1, 27
Dr. G. V. Chalam, M.Sc., Ph.D., Assistant Director of Agriculture, Land Reclamation (Sukinda District, Cuttack).	1
D. Mahapatra, B.Sc. (Agr.) (Allahabad), M.Sc. (Ohio), Assistant Director of Agriculture (Personal Assistant to Director of Agriculture).	1, 2, 12
Balabhadro Misra, B.Sc. (Agr.) (Nagpur), Assoc. I.A.R.I., M.Sc. (Lond.), Economic Botanist.	3, 4, 27
N. R. Panigrahi, B.Sc., Assoc. I.A.R.I., Economic Botanist.	3, 4
G. C. Sengupta, B.Sc. (Agr.), Assoc. I.A.R.I., Entomologist (offg.). Dr. U. N. Mohanty, M.Sc. (Cal.), Assoc. I.A.R.I., Ph.D. (Lond.), Mycologist.	6, 20
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Jagannath Hota, B.Sc. (Agr.), Assoc. I.A.R.I., M.Sc. (Ohio).	7

Sugarcane Specialist.

	Subject
T. S. Sundaram, B.A., Sugarcane Entomologist.	19
B. Tripathi, M.Sc., Coconut Research Officer, Sakhigopal, Puri.	9
U. N. Nanda, Agricultural Engineer, Sukinda.	28
Madhab Patnaik, M.Sc., Bio-Chemist, Cuttack.	25
S. N. Bhoi, B.Sc. (Agr.) (Allahabad), M.Sc. (California), Horticulturalist.	9
Kulamoni Panaik, Fruit Development Officer, Cuttack.	9
M. Patra, B.Sc. (Patna), D.I.II., F.T., Fruit Technologist, Orissa, Cuttack.	5
B. B. Mohanty, B.M.E., Second Agricultural Engineer, Cuttack.	28
ANIMAL HUSBANDRY AND VETERINARY DEPARTMEN	NT.
(Tel.: Cuttack 41 and 230).	
G. B. Singh, B.A., M.R.C.V.S., Director of Animal Husbandry and Veterinary Services, Orissa, Cuttack.	1
U. Patnaik, B.Sc. (Agr.), B.Ed.D. (Agr.), Sci. (Edn.), Livestock Officer, Cuttack.	18
B. Rath, G.B.V.C., Veterinary Investigation Officer, Cuttack: cattle G. S. Dehury, G.B.V.C., Assistant Disease Investigation Officer,	e. 13 13
Cuttack: sheep and goat. B. Das, G.B.V.C., Assistant Disease Investigation Officer, Cuttack:	13
poultry. L. N. Das, G.M.V.C., Research Assistant: sheep.	14
B. Samal, G.B.V.C., Research Assistant, Russelkonda: goats.	14
K. M. Das, G.B.V.C., Research Assistant, Cuttack.	13
B. Patnaik, G.B.V.C., Research Assistant, Cuttack.	16
CENTRAL PROVINCES AND BERAR	
DEPARTMENT OF AGRICULTURE	
P. D. Nair, M.A., L.Agr. (Hons.), Post Graduate Pusa, Director of	1
Agriculture. R. C. Shrivastava, B.Sc. (Nag.), B.Sc. (Tech. Manchester), Dipl.	2
R.T.S. (Glasgow), Agricultural Chemist.	40
S. K. Mishra, M.Sc. (Agr.), Agriculturist to Government, C.P. and Berar.	18
S. S. Pande, M.Sc., Economic Botanist to Government, C.P. and	4
Dr. G. S. Bhatia, B.Sc. (Hons.) M.Sc., Ph.D. (Lond.), F.L.S., F.R.M.S., Second Economic Botanist to Government, C.P. and	4
Berar. Dr. R. P. Asthana, M.Sc., F.A.Sc., D.I.C., Ph.D. (Lond.), Principal, College of Agriculture and Mycologist to Government, C.P. and	20
Revar Naghur.	19
Dr. R. L. Gupta, B.Agr., Ph.D., Assoc. I.A.R.I., Entomologist to Government, C.P. and Berar, Nagpur.	
R. B. Ekbote, M.Sc. (Agr.), Assoc. I.A.R.I., Wheat Specialist, Wheat Research Scheme, Powerkhera (Hoshangabad).	4

Dr. K. G. Joshi, M.Sc., Ph.D., Compost Development Officer and	Subject 1, 25
Deputy Director of Agriculture, Southern Circle, Nagpur. Dr. V. G. Vaidya, B.Agr., Ph.D., Deputy Director of Agriculture,	1
Northern Circle, Jubbulpore.	4
V. D. Kalvit, L.Agr., Deputy Director of Agriculture, Western Circle, Amraoti.	1
B. B. Dave, M.Sc. (Agr.), Deputy Director of Agriculture, Eastern Circle, Raipur.	1
N. R. Ramaiyah, L.Agr. (Hon.), Officer on Special Duty (G.M.F.), Nagpur.	1
B. S. Rao, L.Agr. (Hons.), Deputy Director of Agriculture (H.Q.), Nagpur.	1
M. Pradyumnasingh, M.Sc., Horticulturist to Government, C.P. and	9
Berar, Nagpur. H. P. Chitari, B.E., Agricultural Engineer to Government, C.P. and Berar.	28
VETERINARY DEPARTMENT	
H. B. Shahi, M.Sc., M.R.C.V.S., D.T.V.M., Director of Veterinary	16
Services, Central Provinces and Berar. M. Y. Mangrulkar, M.Sc., M.R.C.V.S., D.T.V.M., Principal,	16
Veterinary College, Jubbulpore. H. N. Chelva Iyengar, G.M.V.C., Professor of Anatomy, Veterinary	16
College, Jubbulpore. J. A. Idnani, G.B.V.C., Officiating Deputy Director of Veterinary	16
Services. P. S. Sundram Pillay, C.B.V.C., Officating Deputy Director of	16
Veterinary Services. S. L. Zargar, G.B.V.C., Officating Assistant Director of Veterinary	16
Services. M. W. Rahalkar, G.B.V.C., Officiating Assistant Director of Veter-	16
inary Services.	
G. H. Khan, G.P.V.C., Officiating Assistant Director of Veterinary Services.	16
V. N. Sharma, G.B.V.C., Officiating Assistant Director of Veterinary Services.	16
G. R. Ramaswamy, G.M.V.C., Officating Assistant Director of Veterinary Services.	16
S. R. Nadgir, G.M.V.C., Assistant Professor of Zootechny, Veterinary College, Jubbulpore.	16
R. P. Misra, G.B.V.C.,	16
T. V. Kuppuswamy, G.M.V.C. Officiating District Livestock	10
M. Ram Mohan Rao, G.M.V.C. J Officers.	16
Y. M. Parnerkar, Honorary Livestock Officer, Central Provinces and Berar.	12
Abdul Hamid Khan, Officiating Deputy Director of Veterinary Services In Charge Animal Husbandry.	12
T. V. Rama Iver, Officiating Deputy Director of Veterinary Services, In Charge Ghee Scheme.	12

D. P. Shrivastava, Extra Assistant Director, Animal Husbandry Section, C.P. and Berar.	Subject 12
D. D. Shukla, Officiating District Livestock Officer.	12
FOREST DEPARTMENT	
R. N. Datta, B.A. (Oxon), M.Sc. (All.), Silviculturist. Wali Mohd, Forest Utilization Officer. K. P. Sagreiya, B.A. (Oxon.), B.Sc. (Nag.), Officer on Special Duty and Secretary, Forest Policy Committee, C.P. and Berar, Nagpur.	21 22 —
ASSAM	
AGRICULTURAL DEPARTMENT	
L. K. Handique, B.Sc. (Agr.) (Edin.), Director of Agriculture, Assam: general administration.	1, 7
S. R. Baruah, B.Sc. (Agr.), M.Sc. (Agr. Bot.), Ph.D., Economic Botanist, Assam.	7
P. M. Ganguli, Assistant Economic Botanist. B. N. Dowera, B.Sc. (Agr.), M.Sc. (Calif.), Assistant Economic	7 7
Botanist. L. N. Phukan, B.Sc., Agricultural Chemist. Dr. S. K. Talapatra, B.Sc., Ph.D., Physiological Chemist: cattle nutrition.	2, 24 15
S. C. Choudhury, B.Sc. (Agr.), Mycologist. G. N. Sarma, B.Sc., P.G., Entomologist.	20 19
CIVIL VETERINARY DEPARTMENT	
A. K. Mitra, M.R.C.V.S., P.G. (Mukteswar), Director of Veterinary Department, Assam: general administration.	1
V. R. Gopalakrishnan, G.M.V.C., P.G. (Mukteswar), Veterinary	16
Investigation Officer, Assam: animal pathology. Bhobani Prasad Barkakati, Assistant Investigation Officer: poultry diseases.	13
FOREST DEPARTMENT	
M. L. Saikia, B.Sc., A.I.F.C., Botanical, Forest Officer and Silvicul-	10
turist, Assam. G. C. Chaudhury, Forest Utilisation Officer, Assam.	11
STATES	
HYDERABAD STATE GOVERNMENT	
irection and Control Rai Mohindra Bahadur, B.A. (Punjab), M.S. (Wisconsin, U.S.A.), Director of Agriculture.	1

	Subjec
A. B. H. Khoorshid, B.A. (Bombay), M.S. (Wisconsin, U.S.A.), Senior Deputy Director.]
K. Venugopal, B.Sc. (Agr.) (Madras), Personal Assistant to the Director of Agriculture.	1
Publicity Section D. V. G. Krishnamurthy, B.Sc. (Madras), B.Agr. (Bombay), M.S.	1
(Cornell), Publicity Officer.	
 M. Venkateshwar Rao, B.Sc. (Agr.) (Bombay), Assistant Publicity Officer. Balkrishna Anant Chitnis, Certificate of specialisation in Commercial Art, Artist Photographer. 	
STATISTICAL SECTION, M. Kamkolkar, B.Sc.Agr. (Nagpur)., Statitical Assistant.	29
AGRICULTURAL ENGINEERING	
S. P. Raju, B.Sc. (Engineering), A.M.I.E. (Benares), Boring Super-intendent.	28
Abdul Kader Aseer, B.A. (Madras), Tractor Engineer. Syed Md. Jafar Razvi, Diplom Landwirt (Berlin), Machinery Superintendent.	28 28
AGRICULTURAL PROPAGANDA AND EXTENSION	
I. Godavari Division	
C. A. Gideon, B.Agr. (Bombay), A.I.A.R.I. (Delhi), In Charge, Deputy Director.	1
Burhanuddin Hussain, B.Agr. (Bombay), Assistant Director, Aurangabad.	1
B. A. Deshpande, B.Agr. (Bombay), Assistant Director, Nanded. Sesh Rao Nandedkar, B.Sc.Agr. (Bombay), Agricultural Assistant, Bhir.	1
R. J. Bakhtul, B.Sc.Agr. (Allahabad), Agricultural Assistant, Aurandgabad.	1
Md. Luqman, B.Sc.Agr. (Nagpur), Agricultural Assistant, Hingoli.	1
B. R. Koppikar, B.Agr. (Bombay), Assistant Farm Superintendent, Parbhani.	1
Kishen Narayan Waghne, B.Sc., B.Sc.Agr. (Allahabad), Agricultural Assistant, Deglur.	1
D. D. Deshmukh, B.Sc.Agr. (Bombay), Agricultural Assistant, Adilabad.	1
Hafizuddin, B.Agr. (Bombay), Agricultural Assistant, Bhainsa.	1
K. K. Dandavate, B.Sc.Agr. (Bombay), Agricultural Assistant, Jalna.	1
Abdul Majid Khan, L.Agr. (Mysore), Farm Superintendent, Rooty Farm, Bhir.	1
Y. K. Javadekar, B.Sc. (Madras), B.Agr. (Bombay), Agricultural Assistant, Aurangabad.	1

	Subject
Y. G. Talnikar, B.Sc.Agr. (Bombay), Agricultural Assistant, Nanded.	1
V. Bhaskar Rao, B.Sc.Agr., Agricultural Assistant, Parbhani.	1
Dharwakar, B.Agr. (Bombay), Embankment Officer, Parbhani.	1
S. M. J. Kazmi, B.Agr. (Bombay), Farm Superintendent and in-	1
charge Agricultural School, Parbhani.	
. Warangal Division	
T. K. Venkat Krisnan, L.Agr. (Nagpur), Deputy Director, Warangal Division.	1
Mirza Zulfiquar Ali Baig, Dip. Agriculture, Assistant Director, Nalgonda.	1
D. V. Subba Rao, L.Agr. (Nagpur), Assistant Director, Warangal.	1
Purushottam Chari, B.Sc., B.Sc.Agr. (Madras), Agricultural Assistant, Nalgonda.	1
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G. B. Sharma, B.Sc.Agr. (Madras), Farm Superintendent, Warangal.	1
K. Radhakrishna Rao, B.Sc.Agr. (Madras), Agricultural Assistant,	1
Karimnagar.	
Purna Chandra Rao, B.Sc.Agr., Agricultural Assistant, Khamam.	1
G. Satyanarayan Swami, B.Sc.Agr., Agricultural Assistant, Devarkonda.	1
K. Sitaram Rao, B.Sc.Agr., Agricultural Assistant, Warangal.	1
B. Ramchandra Reddy, B.Sc.Agr. (Punjab), Agricultural Assist-	1
ant, Huzurabad.	
Sree Ram Murthy, B.Sc.Agr., Superintendent, Tobacco Research	1
Station, Madira, Warangal.	
Nageshwar Rao, B.Sc.Agr. (Nagpur), Agricultural Assistant, Asi-	1
fabad.	
I. Nizamabad Division	
Gocind Rao Hardikar, B.Agr. (Bombay), Deputy Director, Nizam-abad.	1
Vacant, Assistant Director, Nizamabad.	
T. Somasunderam, B.Sc.Agr. (Madras), M.Sc. (Benares)., Farm Superintendent, Agricultural Research Station, Rudroor.	1
Hissamuddin Abde Ali Qayumi, B.Sc.Agr. (Nagpur), Farm Super-intendent, Sangareddi.	1
P. V. Laxman Rao, B.Sc.Agr. (Madras), Agricultural Assistant, Medak.	1
S. K. Sastry, B.Sc. (Madras), B.Sc.Agr. (Madras), A.I.R.I., Assis-	1
tant, Rudroor: sugarcane. Govind Rao, B.Sc.Agr. (Madras), Assistant Farm Superintendent,	1
Rudroor. Rudroor. Agricultural Assistant Nigamahad	1
Parinjikar, B.Sc. Agr. (Bombay), Agricultural Assistant, Nizamabad	1
T. Reddibabu, B.Sc. Agr. (Madras), Agricultural Assistant, Banswada.	1
Gulam Ahmed, B.Sc.Agr. (Allahabad), Agricultural Assistant, Armoor.	
Uma Maheshwar Rao, B.Sc.Agr., Farm Superintendent, Edpally	1
Farm.	

	Subject
IV. Raichur Division	
Sarvottam Rao, B.Agr. (Bombay), Deputy Director, Raichur.	1
Vacant, Assistant Director, Gulbarga.	1
Dattatraya Rao, B.A. (Osmania), B.Sc.Agr. (Benares), Agricultural Assistant, Gulbarga.	1
B. Suryanarayam, B.Sc.Agr., Farm Superintendent, Raichur.	1
Md. Younus Khan, Farm Superintendent, Dharesagur.	1
Makhdum Hussain Ladkhan, B.Agr. (Bombay), Agricultural Officer, Gangavathy.	1
Sayed Mahmood, L.Agr. (Mysore), Agricultural Officer, Yadgir.	1
A. R. Bettigeri, B.Agr. (Bombay), Agricultural Officer, Osmanabad.	1
Syed Kifayatullah, B.Sc.Agr. (Nagpur), Agricultural Officer, Raichur.	1
V. V. Suryanarayan Murthy, B.Sc.Agr., Farm Superintendent, Dharesugur.	1
D. V. Narayanayya, Dip.Agr. (Bombay), Agriculturist, Tungab- hadra Research Station, Dhadesugur.	1
P. K. Savanur, B.Agr. (Bombay), Assistant Director of Agriculture, Latur.	1
Sartaj Baig Khan, B.Sc.Agr. (Leeds), Embankment Officer, Raichur.	1
V. Y. Deshpande, B.Sc.Agr., Agricultural Assistant, Bidar.	1
R. V. Deshmukh, B.Sc.Agr. (Nagpur), Agricultural Assistant, Latur.	1
GROW MORE FOOD CAMPAIGN AND AGRICULTURA	AL
PROPAGANDA AND EXTENSION	
Rai Prithvi Raj, B.Agr. (Bombay), Deputy Director in Charge, Agricultural Propaganda and Extension.	1
Vacant, Assistant Director in Charge Agricultural Propaganda and Extension.	
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Mahboob Ali Khan, L.Agr. (Mysore), Farm Superintendent, Hima-	1
etsagar.	
D. R. Vaidya, B.Sc.Agr. (Nagpur), Agricultural Officer, Hyderabad.	1
Fiazuddin, B.Sc.Agr. (Benares), Agricultural Officer, Mahboob-nagar.	1
Pyare Mohanlal, B.Sc.Agr. (Nagpur), Farm Superintendent, Char- kupalli: Dindi project.	1
S. H. Talib, Poultry Assistant, Himayetsagar.	1
N. Chandriah Naidu, B.Sc.Agr., Agricultural Assistant, Nagarkarnool.	1
1. Ramchandra Rao, L.Agr. (Mysore), Assistant Farm Superintendent, Charkupalli.	1
Umar Khan, Farm Superintendent, Kandukur: Dindi project.	1
Jai Pal Krishen, Inter Agriculture (England), Assistant Farm	1
Superintendent, Himayatsagar.	

Grow More Food

Abdul Wahab, Assistant Controller of Manures, Hyderabad. H. B. Kulkarni, B.A., Assistant, Oil Cake Distribution, Hyderabad.

Zawar Hussain, Assistant, Oil Cake Distribution, Hyderabad. B. Narsimhachar, B.A. (Osmania), Junior Assistant, Oil Cake Distribution, Hyderabad.	Subject 1 1
R. K. Deshmukh, B.A. (Aligarh), Junior Assistant, Oil Cake Distribution, Hyderabad.	1
S. G. Ranade, B.Sc.Agr., Assistant, Oil Cake Distribution, Tandur. Shuthari, B.A. (Osmania), Assistant, Oil Cake Distribution, Nizamabad.	1 1
Mohmed Sultan, B.A. (Osmania), Junior Assistant, Oil Cake Distribution, Warangal.	1
N. S. Nagarkatti, B.Agr. (Bombay), Biochemist, Hyderabad	25
Division. Nageshwar Rao, B.Sc.Agr., Assistant Biochemist, Nizamabad. B. J. M. Reddy, B.Sc.Agr. (Benares), Assistant Biochemist, Aurangabad.	25 25
C. Venkateshwar Rao, B.Sc.Agr., Assistant Biochemist, Gulbarga. Jalaluddin, B.Sc. (Andhra), Assistant Biochemist, Warangal.	25 25
Agricultural Chemistry and Soils	
A. D. Desai, B.Sc., B.Agr. (Bombay), Ph.D. (Aberdeen), Agricultural Chemist, Hyderabad Division.	5
Abdul Huq, Dip.Agr. M.S. (Texas), Soil Physicist, Dharesugur, Raichur District.	5
Shameem Zuhrie, B.Sc. (Aligarh), Dip. Agr. (Glasgow), M.S. (Minnesota, U.S.A.), Assistant Agricultural Chemist, Hyderabad Division.	5
M. Krishna Reddy, B.Sc.Agr. (Nagpur), A.I.A.R.I., Assistant, Soil Research, Rudroor, Nizamabad Division.	5
S. Perumal, B.Sc. (Madras), Senior Survey Assistant, Himayetsagar, Hyderabad Division.	5
Joshi, B.Sc. (Bombay), Senior Assistant, Soil Analysis, Himayet-sagar, Hyderabad Division.	5
Ch. Kirshnamurthy, B.Sc., B.Sc.Agr. (Madras), Ph.D. (California), Junior Assistant, Chemistry Section, Himayetsagar, Hyderabad Division.	5
T. Seshgiri Rao, B.Sc. (Andhra), Junior Assistant, Soil Research, Dindi, Mahboobnagar District.	5
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S. Ranade, B.Sc. (Bombay), Junior Assistant, Alkaline Soils, Rud- roor, Nizamabad District.	5
V. Seetharama Rao, B.Sc. (Osmania), Junior Assistant, Oil Analysis, Himayetsagar, Hyderabad Division.	5
lant Breeding	
S. Nanjundiah, B.Agr. (Bombay), A.I.A.R.I. (Pusa), Economic Botanist, Himayetsagar, Hyderabad Division.	4
L. G. Kulharni, B.Agr. (Bombay), Ph.D. (Minnestota, U.S.A.), Technical Assistant, Castor, Himayetsagar, Hyderabad Division.	4

C. A. Giddeon, B.Agr. (Bombay), A.I.A.R.I. (Delhi), Assistant	Subject 4
Economic Botanist, Parbhani. M. S. Powar, B.Sc. (Madras), B.Agr. (Bombay), M.S. (Cornell).	4
Assistant Economic Botanist.	
N. G. Masur, B.Agr. (Bombay), Senior Botanical Assistant, Warangal. Mohomed Jaffer, M.Sc. (Osmania). (On deputation to the U.S.A.	4
for higher training in plant genetics.) B. P. Joshi, B.Sc.Agr. (Bombay), Senior Assistant, Rudroor,	4
Nizamabad District: paddy. S. Venugopal Rao, B.Sc.Agr. (Nagpur), Senior Assistant, Dharesagur, Raichur District: wheat and jowar.	4
S. Vithal Rao, B.Sc.Agr. (Bombay), Assistant, Himayetsagar, Hyderabad: paddy.	4
M. V. Gopalkrishna Sharma, B.Sc.Agr., Junior Assistant, Parbhani: jowar; wheat.	4
G. V. Ramana Murthy, B.Sc.Agr., Junior Assistant, Himayetsagar, Hyderabad: paddy.	4
K. Ramiah, B.Sc. Agr., Assistant, Rudroor, Nizamabad District:	4
Madhav Rao, L.Agr. (Mysore), Junior Assistant, Dharesagur, Raichur District: wheat; jowar.	4
B. G. Bhat, Junior Assistant, Dindi, Mahbubnagar District: paddy.	4
Sreeramuloo, B.Sc. (Osmania), Junior Assistant, Raichur: crops; weather.	4
Sharifuddin, B.Sc. (Osmania), Junior Assistant, Parbhani: crops; weather.	4
Naseeruddin, B.Sc.Agr., Assistant: castor H.S.1 distribution; jad cherla.	4
D. S. Srikant, B.Sc.Agr., M.Sc.Agr. (Bombay), Botanical Assistant, Parbhani. C. Layminarayan, P.S. Agr. (Bonaras), Potanical Assistant, Hims.	4
C. Laxminarayan, B.Sc.Agr. (Benares), Botanical Assistant, Hima-yatsagar.	4
M. Shankar Rao, B.Sc.Agr. (Benares), Pulse Assistant, Warangal.	4
Entomology	
Mohomed Quaderuddin, M.Sc. (Osmania), D.I.C., Ph.D. (Lond.), Entomologist, Hyderabad.	19
G. Ranga Rao, B.Sc., B.Sc.Agr. (Madras), Assistant Entomologist, Aurangabad.	19
K. Krishna Murthy, B.Sc.Agr., Assistant, Hyderabad.	19
A. S. Chalapathy Rao, B.Sc.Agr. (Madras), A.I.A.R.I. (Delhi), Senior Assistant, Bodhan.	19
Vacant, Senior Assistant, Himayetsagar, Hyderabad. D. V. Murthy, L.Agr. (Mysore), Junior Entomological Assistant,	10
Bodhan.	19
Plant Pathology	

Syed Vaheeduddin, B.Agr. (Bombay), Ph.D. (Minnesota, U.S.A.),

Plant Pathologist, Hyderabad.

Vacant. Senior Assistant, Himayetsagar.

Salabat Ali, M.Sc. (Osmania), A.I.A.R.I., Senior Assistant, Hima-	Subject 6
yetsagar.	
S. V. Pandit, B.Sc. (Bombay), B.Sc.Agr. (Madras), Junior Assistant, Rudroor.	6
Vacant, Junior Assistant, Himayetsagar.	
Vacant, Junior Assistant, Himayetsagar.	
Horticultural Section	
	0
R. S. Shanker Pile, B.A., B.Agr., Horticulturist, Hyderabad. Mohd. Mohibullah Faroqi, B.Agr., M.S. (Los Angeles), Horticulturist, Aurangabad: fruit research.	9
Jagannath Reddi, B.Agr., Assistant Horticulturist, Aurangabad.	9
Sunder Raman, B.Sc.Agr., Assistant Horticulturist, Himayetsagar.	9
Mohiuddin Ali Khan, B.Sc. Agr., Horticultural Assistant, Sangareddi.	9
Sanpath Kumar, L.Agr., Horticultural Assistant, Warangal. R. Sreeram Murthy, B.Sc.Agr., Horticultural Assistant, Rudroor,	9
Nizamabad.	
S. Musharruf Hussain, L.Agr., Horticultural Assistant, Hyderabad.	9
D. R. Kulkarni, B.Sc.Agr., Horticultural Assistant, Bidar.	9
T. Chellappa, B.Sc.Agr. (Madras), Fruit Survey Assistant.	9
H. V. R. Iyengar, L.Agr. (Mysore), Fruit Survey Assistant. Abdul Wahab, B.Sc.Agr., (Madras), Fruit Survey Assistant.	9
R. Ramchandra Rao, B.A., B.Sc.Agr. (Benares), Fruit Survey	9
Assistant.	
A. S. Murthy, B.Sc.Agr. (Benares), Fruit Survey Assistant.	9
Cotton Research Section	
GOORANI IMPROVEMENT SCHEME, Nanded.	
V. K. Bederkar, B.A. (Madras), B.Agr. (Bom), M.S. (U.S.A.), Cotton Research Botanist, Nanded.	3
Vacant, Assistant Cotton Research Botanist, Nanded.	
Vacant, Assistant Cotton Research Botanist and Officer in Charge,	
Plant Breeding Station, Latur. H. R. Naik, Technological Assistant, Nanded.	3
V. K. Joshi, B.Agr. (Bombay), Superintendent, Cotton Research	3
Station, Nanded.	3
J. P. Nirmal, Research Assistant, Latur. V. N. Purna Pragna, M.A. (Mysore), Plant Breeding Assistant,	3
Plant Breeding Station, Madhol.	
CUMPTA COTTON IMPROVEMENT SCHEME, Raichur.	
M. R. H. Quereishi, M.Sc. (Osmania), Senior Research Assistant,	3
Raichur.	3
M. V. Chitnis, Inspector Cotton Seed (R.K.19) Distribution, Raichur.	3
CHEME FOR THE IMPROVEMENT OF COTTON OF PARBHANI	
N. R. Yardi, B.Agr. (Poona), Cotton Breeder, Parbhani.	3
T. D. L. D. C. (Acr.) (Allahabad) Graduate Assistant, Parbhani.	3

	Subject
UNIVERSITY COLLEGE OF AGRICULTURE	Sabjece
Hyderabad Division. H. Amir Ali, B.Agr. (Bombay), Ph.D. (Cornell), Principal, Agricultural College and Dean, Faculty of Agriculture.	1, 27
AGRONOMY M. B. Hussain, M.A., B.Sc. (Hons.) (Edin.), Professor of Agronomy, 2, 2 Suryanarayan Rao, Lecturer in Agronomy.	7, 26, 27 2, 7
BOTANY Husain Ali Razvi, B.Agr. (Bombay), Ph.D. (Bangor, Wales), Reader. B. V. Ramanarao, M.Sc. (Benares), Lecturer.	3, 4 3, 4
CHEMISTRY P. Krishnamoorthy, B.Sc. (Madras), B.Agr. (Bombay), Lecturer. Narayanachari, M.Sc. (Osmania), Lecturer.	5, 24 24
Entomology Dr. Quaderuddin, M.Sc. (Osmania), Ph.D. (Lond.), Part-time Professor.	19
M. Sulaiman, B.Sc. (Ontario, Canada), Lecturer.	19, 20
HORTICULTURE Shanker Pile, B.A. (Madras), B.Agr. (Bombay), Part-time Professor. Kazim Hussain, B.Sc. (Agr.) (Nagpur), Lecturer.	9 9
PLANT PATHOLOGY S. Vaheeduddin, B.Agr. (Bombay), Ph.D. (Minnesota), Part-time Professor. M. Moinuddin, M.Sc. (Osmania), Demonstrator.	20
Animal Husbandry	20
A. M. Naziruddin, G.B.V.C. (Bombay), Lecturer. M. Sayeedullah Khan, B.Sc. (Osmania), B.Agr. (Nagpur), Lecturer.	18 18
Agricultural Engineering Abdul Majeed, B.Agr. (Bombay), Professor. T. Satyanarayana Rao, B.A., B.Agr. (Bombay), Lecturer.	28 28
AGRICULTURAL ECONOMICS. H. Amir Ali, B.Agr. (Bombay), Ph.D. (Cornell), Professor.	1, 27
FARM SECTION M. Akil Khan, L.Agr. (Nagpur), Farm Superintendent.	1
Veterinary Officers	
K. Raghava Chari, Head, Veterinary Investigation Officer, Hyderabad State: veterinary research.	1.3
S. Nurul Mohtida, G.M.V.C.P.G., Assistant Disease Investigation Officer, Hyderabad Division: poultry.	1.3

M. Mahmoodullah, B.Sc., M.R.C.V.S. (Lond.), Director, Veter	Subject inary 13
Services, Hyderabad. Syed Abdul Jabbar, G.B.V.C., I.D.D., M.Sc. (Cornell) (U.S. Deputy Director, Animal Husbandry Section, Hyderabad.	S.A.), 13
Dr. K. S. Shetty, G.M.V.C., Ph.D., Deputy Director, Veters Section, Hyderabad.	inary 13
K. J. Devadanam, B.A., M.Sc. (U.S.A.) in Genetics, General Hyderabad.	ticist, 13
Munshi Abdul Rahman, G.B.V.C., I.D.D., Superintendent, G.B. Breeding Farm, Himayatsagar.	Cattle 13
MYSORE	
AGRICULTURAL DEPARTMENT	
(Tel.: 2804).	
DIRECTION	
K. H. Srinivasan, M.A., B.Sc. (Edin.), Director of Agriculture. Dr. B. T. Narayanan, B.A., Ph.D., D.I.C., Deputy Director of a culture.	
M. Mallaraj Urs, B.Sc., B.Sc. (Agr.) (Edin.), Additional De Director of Agriculture.	eputy 1
CHEMISTRY Dr. S. V. Govindarajan, B.Sc. (Hons.), Ph.D., D.I.C., Agricul	ltural 24
Chemist.	25
M. Subbiah, B.A., Bio-Chemist, in charge of Compost Scheme. Dr. N. G. Chokkanna, M.Sc., Ph.D., Assistant Chemist, C. Quality Scheme.	
PLANT PATHOLOGY	
S. V. Venkatarayan, B.A., Plant Pathologist. N. S. Venkatakrishnaiya, B.Sc., Assistant Plant Pathologist.	6
ENTOMOLOGY B. Krishnamurti, B.Sc., F.R.E.S., Government Entomologist.	19
D. Seshagiri Rao, B.Sc., Assistant Entomologist.	19
M. Puttarudriah, B.Sc., Assistant Entomologist on deputation U.S.A.	on to 19
M. Appanna, B.Sc., Assistant Entomologist (Biological Conscience).	ontrol 19
BOTANY Dr. L. S. Dorasami, M.Sc., Ph.D., Economic Botanist.	7
T. Srinivasamurthy, M.Sc., Senior Assistant Botanist.	7
G. Sreenivasa Iyengar, M.Sc., Cotton Research Officer.	7 7
K. Gopaliengar, M.Sc., Oilseeds Research Officer. B. Venkoba Rao, B.Sc. (Mys.), M.S. (Lous.), Sugarcane Res.	

Officer.

	Subject
Engineering S. Venkatasubbiah, B.E., Agricultural Engineer (Government of	28
India Service).	
M. Muniyappa, B.E., A.M.I.E., Agricultural Engineer. Samuel Danaraj, B.E., Tractor Engineer.	28 28
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VETERINARY AND ANIMAL HUSBANDRY SERVICE	ES
Dr. P. M. Narainswamy Naidu, B.Sc., L.V.P., D.Sc., F.F.A.S., Director of Animal Husbandry Services.	1, 18, 22
P. U. Nayar, G.B.V.C., P.G., Superintendent, Mysore Serum Institute.	
J. Muniyappa, L.V.P., Assoc. I.D.R.I., Sheep Development Officer. V. S. Kuppuswamy Mudaliar, G.M.V.C., P.G., Assistant Disease	17 22
Investigation Officer (Sheep and Goats Diseases—I.C.A.R. Scheme)	
C. Venkataswamy, G.V.Sc., Assistant Disease Investigation Officer (Poultry Diseases—I.C.A.R.Scheme).	22
N. S. Krishna Rao, B.A., L.V.P., Helminthologist.	21
M. G. Sekharan, L.V.P., Assistant to the Veterinary Research Officer.	22
P. C. Adaikalam, G.M.V.C., Manager, Cattle Breeding Station.	14
S. K. Venkata Rao, Amrit Mahal Officer.	18
Dr. H. D. R. Iyengar, M.Sc., Ph.D. (U.S.A.), Fisheries Officer. H. S. Lakke Gowda, M.Sc., Assoc. I.V.R.I., Nutrition Chemist.	17 15
Syed Abdul Rahaman, M.Sc., Bio-Chemist: poultry.	25
G. V. Dodda Ramiya, B.A. (Hons.), M.Sc., Animal Husbandry Statistician.	29
G. V. Ramiya, G.B.V.C., P.G., Superintendent, Hessarghatta Grass and Stud Farm.	18
B. G. Gupta, Apiarist.	18
Dr. P. Mc. Isaac, B.Sc. (Hons.) (Edin.), Ph.D. (Edin.), Assistant Director.	18
FOREST DEPARTMENT	
(Tel.: 2346).	
M. A. Muthanna, B.Sc., I.F.S. (Dip.), Chief Conservator of Forests	10, 11
in Mysore: direction. M. N. Ramaswamy, M.Sc., D.Sc. (Munich), Forest Research	11
Laboratory, Bangalore: chemistry, cellulose and M.F.P.	
C. Jayarama Reddy, M.Sc., A.I.F.C., Forest Research Laboratory, Bangalore: sylviculture and management.	10
JAMMU AND KASHMIR STATE	
(Tel.: 153).	
Th. Harnam Singh Pathania, Chief Conservator of Forests, Srinagar. L. Shadi Lal Vadehra, Conservator of Forests, Kashmir Circle, Srinagar (Tel.: 189).	1, 10
D. Kewal Kishen Nanda, Conservator of Forests, Jammu Forest Circle, Jammu (Tel.: 299).	10

2, 25

	REPUBLIC OF	F INDIA
		Subject
	Sri Dhar Dhar, Conservator of Forests, Working Plan and Research Division, Srinagar (Kashmir).	10
	P. N. Kaul, Assistant Conservator of Forests, in charge Research Division, Srinagar (Kashmir).	10
	S. N. Razdan, Assistant Conservator of Forests, Utilization Division, Baramulla: marketing of timbers and minor forest products.	11
	ACDICIU TUDAL DEPARTMENT	
	AGRICULTURAL DEPARTMENT	
	(Tel.: 87). G. M. Butt, Director of Agriculture.	1
	VETERINARY DEPARTMENT	
	(Tel.: 41).	
	V. L. Wazir, Director of Veterinary Department.	. 1
	R. C. Haksar, Officer in Charge, Government Sheep Breeding and Research Farm, Banihal, Kashmir.	14
	Mohd. Ramzan, Veterinary Disease Investigation Officer, Jammu	16
	and Kashmir.	10
	GOVERNMENT OF UNITED STATE OF	
	TRAVANCORE AND COCHIN	
	CENTRAL RESEARCH INSTITUTE	
D	Division of Applied Chemistry	
	Dr. P. V. Nair, M.Sc., D.Phil. (Oxon.), Professor of Applied Chem-	
	istry.	25
	T. R. Narayana Pillai, M.Sc. A.I.I.Sc., A.R.I.C., Public Analyst. A. P. A. Brite-Muthunayagom, B.Sc. (Agr.), M.Sc. (Cornell), 2,	
	A. F. A. Bitte-muthunayagoni, B.Sc. (Agr.), M.Sc. (Cornen), 2, A.R.I.C., Agricultural Chemist.	3, 0, 43
	M. Sreedharan Pillai, B.A., M.Sc., Chemical Assistant.	11, 24
	P. G. Nilakanta Pillai, B.A., M.Sc., Water Analyst.	24, 25
	M. C. Abraham, B.Sc. (Agr.), D.I.C. (Lond.), Assistant Agricultural	2, 8
	Chemist.	
	N. Subramonia Varier, B.A., M.Sc., Senior Chemist, Fishery De- 5,	
	velopment Scheme.	25
	K. K. Narayana Pillai, B.A., B.L., Chemical Assistant.	5, 24
	, , , ,	5, 11, 24 24
	S. S. Moosath, M.Sc., Archaeological Chemist. T. A. Ramakrishnan, M.Sc., Chief Chemist, Government Shark 5,	
	Liver Oil Factory.	25
		5, 11, 24
	P. Janardana Iyer, M.Sc., Assistant Analyst.	17, 25
	P. S. Narayanan Nambiar, M.Sc., Senior Chemist, Model Salt Fac-	17, 25
	tory.	17 07
	S. Janardana Iyer, L.T.C. (Hons.), Assistant Analyst.	17, 25
	T. K. Parameswara Kaimal, B.A., Assistant Chemist, Soil Survey	2, 24

N. Subramoney, B.Sc., L.T., M.Sc., Assistant Chemist, Soil Survey

Scheme.

	Subject
K. Sadsivan Pillai, B.Sc., Assistant Chemist, Fishery Development Scheme.	24, 25
V. Krishna Pillai, B.Sc., Hydrologist, Fishery Development Scheme.	24, 25
K. R. Janardhanan Nair, B.A., Technical Assistant.	2, 24
C. S. Bhaskaran Nair, B.Sc., Technical Assistant. S. Lewis Pillai, B.Sc., Assistant Chemist, Model Salt Factory.	5, 24 24
P. K. Mathew, M.Sc., Assistant Chemist, Soil Survey Scheme.	2, 24, 25
C. J. Philip, B.Sc., Technical Assistant.	24, 25
Miss K. Pankajakshy Amma, B.Sc.	5, 24
Miss T. Pankajakshy Amma, B.Sc.	5, 24
Miss Anna Mariam Chacko, B.Sc.L.T. Miss Annie Koshy, M.Sc.	24, 25 24, 25
Miss N. Saraswathy Bai, B.Sc. Research Workers.	5, 24
K. N. Gopinathan Nair, B.Sc.	5, 11, 24
R. Krishna Pillai, B.Sc.	24
P. S. Mahadevan, B.Sc.	5, 24
E. John Jacob, B.Sc.	24, 25
Division of Applied Biology	
Dr. A. Abraham, M.A., M.Sc., Ph.D. (Cornell), Honorary Plant Geneticist.	3, 4, 5
P. Kumara Pillai, M.Sc., Economic Botanist.	3, 4, 12
A. J. Chacko, M.Sc., Assistant Economic Botanist.	3, 4
K. V. Joseph, M.Sc., Agr. Entomologist. G. Renga Iyer, M.Sc., Assistant Entomologist.	19
G. K. Nair, M.Sc., Assistant Research Officer.	19
J. Samraj, M.Sc., Mycologist.	20
Division of Statistics	
Dr. U. Sivaraman Nair, M.A., Ph.D. (Lond.), Professor of Statistics.	29
Miss Aleyamma George, M.Sc., Research Assistant.	29
S. Janardana Iyer, M.Sc., Research Assistant. K. C. Sreedharan Pillai, M.Sc., Research Assistant.	29
V. J. Chacko, M.Sc., Research Assistant.	29 29
S. Gopalakrishnan Nair, B.Sc., Analyst.	29
Division of Agriculture	
K. R. Narayana Iyer, B.A. (Madras), M.Sc. (New Jersey, U.S.A.),	1 2
F.C.S., Director of Agriculture, Soil Science and Crop Nutrition	1, 2
(on leave).	
T. C. Kochunni Pillai, B.Agr., Assistant Director of Agriculture, in charge.	1, 18
K. Madhavan Nair, B.A., M.Sc., M.S. (Cornell U.S.A.), Botanist,	2, 4
Scheme for the Improvement of Paddy. T. R. Kesavan, G.B.V.C., D.V.M., P.G., F.F.Sc., Assistant Director	1 10
of Animal Husbandry and Veterinary Services.	1, 18
K. N. Nair, G.B.V.C., P.G., Veterinary Disease Investigation Officer.	10
K. Gopala Marar, B.A., B.Sc., Economic Botanist. N. Ramanatha Menon, B.Sc., Assistant Economic Botanist (Tem-	3
porary).	3

WEI OBLIC OF	TUDIA
TI TI' DC 4 ' II I G 1 ' (OCC ')	Subject
K. I. Tobias, B.Sc., Agricultural Chemist (Officiating). C. S. Venkitasubban, B.A., B.Agr., Entomologist.	5
P. Krishna Menon, B.Agr., Manager, Central Farm.	19 1
Transfer Honor, Diligi., Hawager, Communitaring.	•
D.L.O.D.A.	
BHOPAL	
K. R. N. Pillai, M.B.E., B.A. (Madras), M.A., B.Sc. (Edin.), Secretary, Forests and Fisheries, and Conservator of Forests. (Tel.: 14).	10
Syed Majid Ali, M.Sc. (Alig.), Assoc. I.A.R.I., Agricultural Officer, in charge Headquarters, Bhopal.	4, 12
Mohd Amin, D.D.R., Assistant Conservator of Forests.	10
Mahmood Raza Khan, B.Sc., M.R.H., Divisional Forest Officer, East.	10
Mahmood Ahmad Siddiqi, B.Sc. (Agr.), Farm Superintendent: agriculture.	1
Masha Allah Khan, Farm Superintendent: agriculture.	1
Mumtaz Beg, Farm Superintendent: agriculture.	1
PATIALA AND EAST PUNJAB STATES UNIO	N
AGRICULTURAL DEPARTMENT	
S. B. Sardar Kartar Singh, B.Sc. (Agr.), N.D.D., Director of Agriculture.	1
Sardar Pritam Singh Brar, M.R.C.V.S., Superintendent, Civil Veterinary Department.	1
Sardar Gursham Singh, M.Sc., Ph.D., Assoc. I.A.R.I., Agricultural 3, 4 Botanist.	, 12, 20 22
Krishan Nath Synghal, M.Sc., Assoc. I.A.R.I. Agricultural Chemist. 2, 5 Sardar Amrik Singh Chema, M.Sc. (Agr.), Assistant Director Agri- 3, culture Patiala Circle.	7, 8, 9, 27, 28
Sardar Gurdit Singh, B.Sc. (Agr.), Assistant Director Agriculture, 7, 8 Kapurthala Circle.	
Sardar Ranbir Singh, B.Sc. (Agr.), Assistant Director Agriculture, 7, 8	
Sardar Jagir Singh, B.Sc. (Agr.), Assistant Director Agriculture, 7, 8	
Sardar Sewa Singh, G.P.V.C., Deputy Veterinary Superintendent, 13 Patiala Circle: advance courses in animal husbandry and bio-	, 16, 18
logical products. Sardar Gurcharan Singh, L.V.P., Deputy Veterinary Superintendent, 1	3, 16,18
Fatehgarh Sahib Circle. Sardar Hari Singh, L.V.P. Deputy Veterinary Superintendent, 13	, 16, 18
Faridkot Circle. Sardar Gurbakhsh Singh, G.P.V.C., Deputy Veterinary Superinten- 13	, 16, 18
dent, Kapurthala Circle. Sardar Amrik Singh, B.Sc. (Hons.), Marketing Officer: marketing	27
of agricultural produce.	

PAKISTAN

GOVERNMENT OF PAKISTAN	Subject
Ministry of Food and Agriculture Karachi	Baojece
AGRICULTURE DIVISION Syed Imam Ahmed, Deputy Agricultural Development Commis-	1, 2
sioner: soils; fertilizers; plant nutrition. S. A. Hamid, M.A., Director of Statistics: applied statistics. Abdul Hanif, M.A. (Pb.), Certificate in Statistics, Research Investi-	29 29
gator: applied statistics. Fasihuddin, M.A. (Alig.), Research Investigator: applied statistics.	29
Forests S. A. Vahid, B.Sc., B.A. (Oxon.), I.F.S., Inspector General of Forests: silviculture.	10
Pakistan Forest Ranger College, Upper Topa, Murree Hills (West Punjab).	
S. A. A. Anvery, B.Sc. (Hons.), I.F.S. Diploma, Director of Research. S. M. Ishaq, B.A., B.Sc. (Hons.), M.Sc., Assistant Forest Utilization	1 11
Officer: forest products and utilization. Dr. A. H. Khan, M.Sc., Ph.D., Assistant Botanist: botany and plant pathology.	3, 6
Ministry of Economic Affairs	
Karachi Z. H. Chaudhry, B.A. (Wales), Research Officer: collection and interpretation of economic and statistical data relating to agricultural problems.	27, 29
A. K. Yousufzai, M.A. (Economics), LL.B., Statistical Investigator: collection of statistical data; interpretation and representation of such data in appropriate form.	29
T. M. Khan, M.A. (Economics), Statistical Investigator: collection and interpretation of economic and statistical data relating to agricultural problems.	27, 29
G. M. Khan, M.A. (<i>Economics</i>), <i>Statistical Investigator</i> : collection and interpretation of economic and statistical data relating to agricultural problems.	27, 29
M. Tahir Hamid, M.A., LL.B., Statistical Investigator: co-operation in agriculture and industry.	20
Department of Animal Husbandry Karachi	
Dr. S. A. Yasin, M.Sc., Ph.D., M.R.C.V.S., Deputy Animal Husbandry Commissioner, and Director of Animal Husbandry Research Institutes, Peshawar and Comilla: bacteriology viruses and related immunology; animal husbandry.	18, 22
M. A. Khan, M.Sc., G.V.Sc., Officer on special duty: entomology (hides and skins).	19

PAKISTAN ANIMAL HUSBANDRY RESEARCH INSTITUTE,	Subject
Comilla (East Bengal). S. R. Hasan, B.A., M.R.C.V.S., Officer-in-Charge: biological products.	17
M. Israil, G.V.Sc., Assistant Research Officer: biological products. C. M. Hasan, G.V.Sc., Assistant Research Officer: helminthology.	17 21
Pakistan Animal Research Institute, Peshawar (N.W.F. Province)	
Dr. M. Abdus-Salam, Ph.D., L.V.P., Officer-in-Charge: bacteriology; viruses and related immunology.	22
Dr. Z. A. Hashmi, M.Sc., D.V.M., L.V.P., Research Officer: biological products, poultry and extension.	17
Abdul Wahid, M.Sc., L.V.P., Research Officer: annimal production M. M. Huq, B.V.Sc., G.M.V.C., Assistant Research Officer: animal pathology.	17 16
M. Jamil, M.Sc., D.V.M., L.V.P., Assistant Research Officer: bacteriology; viruses and related immunology; pathology (poultry).	22
F. G. Ahmed, L.V.P., Assistant Research Officer: bacteriology; viruses and related immunology; pathology (poultry).	16
Plant Protection Department	
Karachi	10
Dr. Taskhir Ahmed, B.Sc., Ph.D. (Cantab.), Director, Plant Protec-	19
tion: entomology (1. insect ecology); (2. control of insect pests.) Dr. M. Abdul Qayyum Khan, M.Sc., Ph.D. (Calif.), Plant Protection Future legists, antermology (insect posts)	19
tion Entomologist: entomology (insect pests). Ghulamullah, B.Sc. (Agr.), Assoc. I.A.R.I., Assistant Entomologist: entomology (1. control of field cricket); (2. systematics of	19
aphids). S. Sadiq Hussain, M.Sc., Assistant Entomologist (Food Storage):	19
entomology (storage pests). Dr. S. Z. Hasnain, M.Sc., Assoc. I.A.R.I., Ph.D. (Minn.), Assistant Plant Pathologist: mycology (systematics); plant pathology (cereal rusts).	6, 20
S. M. Taqi Ahsan, M.Sc., Deputy Locust Entomologist: entomology	19
(locust control). Rashid Ahmed, M.Sc., Assistant Locust Entomologist: entomology (locust survey).	19
Manzoor Abbas, M.Sc. (Agr.), Locust Technical Officer: entomology (locust control); (biology of jassids).	19
Maqsood Nasir, M.Sc. (Agr.), Assistant, Quarantine Entomologist:	19
Ghulam Hussain, M.Sc., Assistant Quarantine Entomologist: en-	19
M. A. Habib, B.Sc., Assistant Quarantine Entomologist: entomology (quarantine of pests).	19
M. Rashid Khan, M.Sc., Entomologist, Codling Moth Scheme: en-	19

2.5

PROVINCIAL GOVERNMENTS

WEST PUNJAB

Department	of	Agriculture
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Department of Agriculture	
Lahore Malik Sultan Ali Noon, Diploma (Agr.) (Cantab), Director of Agri-	1
culture, Lahore.	
H. G. Sadik, B.A. (Oxon.), Assistant Director of Agriculture, Lahore.	1
Khalifa Amjad Hussain, B.Sc. (Hons.) (Pb.), Deputy Warden of Fisheries, Lahore: pisciculture.	
Malik Ahmed Khan, B.Sc. (Agr.) (Pb.), B.Sc. (Edin.), Assistant Botanist (Fodder), Sargodha: grassland; herbage and fodder plants.	8
A. W. Chaudhry, B.Sc. (Agr.) (Hons.) (Edin.), L.Agr. (Punjab),	1, 7
Deputy Director of Agriculture, Montgomery: arable crops, and supervision of experimental station.	
K. S. Alhaj Mian Ahmed Ali Soofi, L.Agr. (Pb.), M.R.A.S. (Eng.),	1, 7
Deputy Director of Agriculture, Rawalpindi: arable crops, and supervision of experimental station.	
Mian Akbar Ali Tur, M.Sc. (Agr.) (Pb.), B.Sc. (Agr.) (Edin.), N.D.D., M.R.A.S., Deputy Director of Agriculture, Gujranwala: arable crops and supervision of experimental station.	1, 7
Ch. Mohammad Hussain, L.Agr. (Pb.), Deputy Director of Agriculture, Multan: arable crops and supervision of experimental station.	1, 7
Mian Abdul Hamid, M.A., B.Sc. (Agr.) (Glasgow), College Diploma Agr. (Glasgow), Marketing Officer, Lahore: economics.	27
Vest Punjab Agricultural College, Lyallpur.	
Dr. Khan A. Rahman, B.Sc. (Edin.), Ph.D. (Cantab.), F.R.E.S., Principal: entomology.	19
Malik Amanat Khan, B.Sc. (Agr.) (Edin.), Professor of Agriculture and Rural Economics: arable crops.	7
Ch. Zafar Alam, B.Sc. (Agr.) (Pb.), M.Sc. (Lond.), F.L.S., Oilseeds Botanist: plant breeding (oilseeds).	4
Agha Ghias-ud-din, B.Sc. (Agr.) (Pb.), B.Sc. (Lond.), M.Sc. (Calif.) Bar-at-Law, <i>Professor of Botany</i> : plant breeding.	4
Dr. Abdus Sattar, B.Sc. (Agr.) (Pb.), Assoc. I.A.R.I., Ph.D. (Lond.), D.I.C. (Lond.), Plant Pathologist: plant pathology.	6
Ch. Sardar Khan, L.A.G., B.Sc. (Agr.) (Pb.), Cereal Botanist: plant breeding.	4
Ch. Karam Rasul, B.Sc. (Agr.) (Pb.), Assoc. Professor of Agriculture: arable crops.	7
LtCommander Abdul Latif, M.Sc. (Agr.) (Pb.), Assoc. Professor of Entomology: entomology.	19
Anwar Hussain, M.Sc. (Hons.), Agricultural Chemist II: general	24

K. S. Ch. Sardar Mohammad, B.Sc. (Hons.), M.Sc. (Pb.), Agricul-

chemistry.

tural Chemist I: soils; fertilizers; plant nutrition and plant

N. D. Uusaf, M.Sc. (Pb.), M.Sc. (Cantab.), Sugarcane Botanist: plant breeding (sugarcane).	Subjec 4
Ch. Sultan Ali, B.Sc. (Agr.) (Pb.), B.Sc. (Agr.) (Lond.), Dip. Agr. (Wye), M.R.A.S. (Lond.), Assistant Professor of Agriculture: arable crops.	7
Mohammad Abdul Aziz, B.Sc. (Agr.) (Pb.), Assistant Botanist, Oilseeds: plant breeding (oilseeds).	4
Ch. Abdul Rashid Khan, M.Sc. (Agr.) (Pb.), Assistant Botanist (Cereal): plant breeding (cereal).	4
Ch. Sardar Mohammad Gill, B.Sc. (Agr.) (Pb.), Post Graduate, I.A.R.I. (New Delhi), Assistant Professor of Agriculture: arable crops.	7
Agha Ali Asghar Khan, B.Sc. (Agr.) (Pb.), Ph.D. (Wales), Assistant Professor of Agricultural Economics: economics (agr.)	27
Musahib-ud-din, M.Sc. (Agr.) (Pb.), Assistant Professor of Horti- culture: horticulture.	9
S. Asghar Ali Shah, B.Sc. (Agr.) (Pb.), Post Graduate, I.A.R.I. (New Delhi), Assistant Agricultural Chemist: plant chemistry.	5
S. Fateh Ali Shah, B.Sc. (Agr.) (Pb.), Assistant Botanist (Cotton): plant breeding (cotton).	4
Ch. Mohammad Afzal, B.Sc. (Agr.) (Pb.), Assistant Professor of Botany: plant breeding.	4
Abdul Wahab, M.Sc., Assistant Professor of Chemistry: plant chemistry.	5
Abdul Wahid Khan, M.Sc. (Agr.) (Pb.), Assistant Entomologist. (Plant Protection): entomology (plant protection).	19
Dr. Abdul Hafiz, M.Sc. (Agr.) (Pb.), Ph.D. (Pb.), Ph.D., D.I.C.	4
(Lond.), Assistant Professor of Botany: plant breeding. N. A. Makhdoom, M.Sc. (Horti.) (Arizona) (U.S.A.), Fruit Specialist:	9
horticulture. A. G. Phillips, B.Sc. (Agr.) (Pb.), Assistant Fruit Specialist: horti-	9
culture. Ch. Jamal-ud-din, B.Sc. (Agr.) (Pb.), Assoc. I.A.R.I. (New Delhi),	4
Assistant Botanist (Rice): plant breeding (rice). M. Fazal-ud-din, B.Sc. (Agr.) (Pb.) Post Graduate, I.A.R.I. (New	22
Delhi), Assistant Agricultural Bacteriologist: bacteriology (agriculture).	
Ch. Sultan Ali, B.Sc. (Agr.) (Pb.), Assistant Professor of Entomology: entomology.	19
M. Abdul Karim Bhatti, B.A. (Mathematics), Statistician: statistics. Majid Hassan Khan, B.Sc. (Albd.), B.Sc. (Agr. Engineering) (Albd.), M.Sc. (Agr. Engineering) (Wise, U.S.A.), Agricultural	29 28
Engineer: engineering (agr.). S. M. Rafiq, A.M.I.S.E. (Lond.), Section ACDE, SDO Boring: engineering (well boring).	28

Department of Animal Husbandry

Montgomery
S. I. A. Shah, M.R.C.V.S., Deputy Director, Animal Husbandry 14, 15, 17
(Livestock Breeding): animal breeding; animal nutrition;
animal production, including dairying.

M. M. Sarwar, L.V.P., Helminthologist, Sheikhupura: helminthology.	Subject 21
West Punjab Veterinary College, Lahore. S. M. Sarwar, M.R.C.V.S., Principal: animal husbandry. W. M. Khan, M.R.C.V.S., Professor of Physiology: physiology. Ch. Mohammad Yaqub, B.V.Sc., Professor of Parasitology: pathology; bacteriology; entomology. S. A. Chaudhri, M.R.C.V.S., Professor of Anatomy: anatomy.	18 13 16, 19, 22
SIND	
Department of Agriculture	
R. S. B. B. Desai, M.Agr. (Bom.), Deputy Director of Agriculture, Sind, Hyderabad; plant breeding.	4
A. R. Akhtar, M.Sc. (Hons.), Assoc. A.I.I.Sc., Cotton Botanist, Mirpurkhas, Sind: plant breeding; production of long staple cotton.	4
H. K. Mughal, B.Sc. (Agr.) (Hons.), Assoc. I.D.R.I. (Benglore), Livestock Officer, Sind, Malir: animal breeding; animal nutri- tion; animal husbandry.	14, 15, 18
K. F. Ahmed, Agricultural Engineer, Sind, Hyderabad: engineer-	28
ing. Gobind Ram N. Shahani, B.Sc. (Agr.), Divisional Superintendent of Agriculture, North Sind, Sukkur: plant breeding.	4
Abdul Rahman M. Memon, B.Sc. (Agr.), Assoc. I.A.R.I. (New Delhi), Assistant Cotton Breeder, Sind, Mirpurkhas: plant breeding; breeding of short staple (desi) and medium staple (American) cottons.	4
Dr. Ahmed Khan, B.Sc. (Agr.), Ph.D. (Wales) in Agr. and Economics, F.S.S., <i>Deputy Director of Agriculture</i> , Sind, Larkana: agronomy; economics.	27
A. M. Mustafa, M.B.E., M.A. (Oxon.), Dip. Rural Econ. (Oxford.), Bar-at-Law, Director of Agriculture, Sind Karachi.	1
KING GEORGE V INSTITUTE OF AGRICULTURE, Sakrand, Sind.	
Dr. A. M. Shaikh, M.Sc. (Bom.), Ph.D. (Lond.), D. I.C., A.I.C., A Agricultural Chemist and Soil Physicist, Professor of Chemistry and Principal: soils; fertilizers; plant nutrition; plant chemistry; general chemistry, and bio-chemistry.	2, 5, 24, 25
A. R. Pirzada, M.Sc., Botanist, Professor of Botany and Vice- Principal: general botany and plant physiology; plant breeding.	3, 4
H. G. Chagla, M.Sc. (Ore.) (U.S.A.), F.R.H.S. (Lond.), Agriculturist and Professor of Agriculture: arable crops; grassland herbage and fodder plants; climatology.	7, 8, 26
M. Haroon Khan, B.Sc. (Lond.), A.R.C.S. (Lond.), Entomologist and Professor of Entomology: entomology.	10
A. R. Arain, B.Agr. (Bom.), C.H.D. (Manchester), M.Sc. (U.S.A.), Professor of Agricultural Economics: economics.	27

	Subject
K. G. Rajper, B.Sc. (Hons.) in Agriculture, I.I.F. Technology	9
(Dip.), Assistant Professor of Horticulture: horticulture. Mohammad Amin Bhatti, B.Agr. (Bomb.), Dip. I.D.R.I., Assistant Professor of Animal Husbandry and Dairying: animal breeding; animal nutrition; animal husbandry.	14, 15, 18
A. S. Fatmi, M.Sc. (Agra.), Assoc. I.A.R.I. (New Delhi), Assistant Professor of Mycology: plant pathology; mycology; bacteriology viruses and related immunology.	6, 20, 22
Research Stations and Farms	
Mohammad Rafik M. Siddiki, M.Sc. (Bom.), Agricultural Chemist and Soil Physicist, Officer-in-Charge, Research Station, Dokri, Sind: soils; fertilizers; plant nutrition.	2
A. G. Pirzada, B.Agr. (Bom.), Post Graduate training in horticultural technology, <i>Horticulturist</i> , <i>Government Fruit Farms</i> , <i>Mirpurkhas</i> , <i>Sind</i> : horticulture (technology).	9
A. K. Khan Lodhi, B.Agr. (Bom.), Development Officer, Pai Forest Farm, Sakrand, Sind: development of improved seeds multi-	1
plication work (research and extension).	
Department of Forests	
Abdullah R. Arain, M.Sc., <i>Utilization Research Officer</i> , Department of Forests, Sind, Hyderabad: forest products (major and minor) and utilization:—research to improve utilization efficiency in all products and to collect statistics of their present uses, quantity consumed and source of supply.	11
Moin Alam Qadri, B.Sc., and Superior Forest Service Course. Training at Dehra Dun for 18 months (1946-48), Silviculturist, Department of Forests, Sind, Hyderabad: forestry—silviculture and management; preparation of yield and volume tables of babul; experimental sowing of exotics, their rate of growth, etc.; to investigate factors affecting the growth of tree crops in irrigated plantations and to ascertain the annual rates of production of wood and the requirement of water.	10
Department of Veterinary Services	
Karachi. M. Mohey Din, M.R.C.V.S., Director Veterinary Services: liver fluke and contagious pleuro pneumonia.	18
Mohd Bux, G.B.V.C., Officer in Charge Veterinary Laboratory:	18
collecting statistics of some diseases in Sind.	18
I. Y. Sheikh, G.B.V.C., Assistant Veterinary Investigation Officer (Poultry) and P.G. (Poultry Science): diseases in poultry.	
BALUCHISTAN	
Department of Agriculture	
Quetta Dr. Abdul Aziz Khan, B.Sc. (Agr.) (Pb.), Ph.D. (Hort.) (Bristol), Director of Agriculture: horticulture (fruit growing, fruit and vegetable preservation).	9

R. Zarbakht Khan, B.Sc. (Agr.) (Edin.), C.D.A. (Wye), Deputy	Subject 1
Director of Agriculture: agronomy. Dr. Nazeer Ahmed Janjua, M.Sc. (Zoology), Ph.D., Faculty of Science (Entomology), Entomologist: entomology.	19
Mohammad Asghar Giani, M.Sc. (Hons.). One year post graduate training at College of Agriculture, University of California (U.S.A.), Horticulturist: horticulture.	9
Malik Said Ahmed, M.Sc. (Hons.) in Botany, Mycologist: mycology.	20
Department of Forests Quetta	
Ghaus Mohammad Khattak, B.Sc., A.P.F.S., Forest Working Plan Officer: silviculture and management.	10
Department of Animal Husbandry Quetta	
K. S. Dr. Mohammad Ramzan Khan, B.A. (Punjab), Graduate Punjab Veterinary College, Post Graduate Punjab Veterinary College, Deputy Director of Animal Husbandry: animal hus-	1, 18
bandry.	
NORTH-WEST FRONTIER PROVINCE	
Department of Agriculture Peshawar	
S. Mohd. Ibrahim Shah, M.Sc. (Utah) (U.S.A.), M.Sc. (Bristol), Director of Agriculture, Tarnab Farm.	1
M. Fazlur Rahim Khan, M.Sc. (Alig.), M.Sc. (Calif.), M.Sc. (Minn.), M.A.S.H. (U.S.A.), F.R.H.S. (Eng.), Horticulturist, Tarnab Farm: horticulture and plant breeding.	4, 9
Abdul Halim Khan, L.C., Assistant Director of Agriculture, Peshawar: superintendence of district work.	1
Mohammad Said Khan, B.Sc. (Agr.), Assistant Director of Agriculture, Dera Ismail Khan: superintendence of district work.	1
Mohammad Solyman, B.Sc. (Agr.), Assoc. I.A.R.I., Economic Botanist, Tarnab Farm: general botany.	3
Abdul Aziz, B.Sc., Assoc. I.A.R.I., Agricultural Chemist, Tarnab 2 Farm: soils; fertilizers; plant nutrition; plant chemistry;	2, 5, 24, 25.
general chemistry and bio-chemistry. Abdul Hamid Khan, B.Sc. (Agr.), Assistant Director of Agriculture,	1
Kurram (Parachinar): superintendence of agency work and research in general and plant protection.	
Mian Obedullah Jan, B.Sc. (Agr.), Assoc. I.A.R.I., Sugarcane Specialist, Tarnab Farm: research in sugarcane and plant breeding.	4
Fazal Dad Khan, B.Sc. (Agr.), Entomologist, Tarnab Farm: entomology.	10
Mohammad Sarwar Khan, B.Sc. (Agr.), Assoc. I.A.R.I., Mycologist. Tarnab Farm: mycology.	20
Faqir Hussain, B.Sc. (Agr.), Assistant Director of Agriculture, Haripur: superintendence of district work.	1
A STATE OF THE STA	

	THUBIAN
M. S. Roghani, B.Sc. (Agr.), M.Sc. (Orign.), H.P. (Pb.), Fruit Technologist, Tarnab Farm: preservation and transport.	Subject 30
Mohammad Rashid, M.Sc., Entomologist. In Charge Codling Moth Scheme, Parachinar: plant protection.	4
EAST BENGAL	
Department of Agriculture	
Dacca	
Khan Bahadur Dr. S. Hedayatullah, M.Sc. (Cal.), Ph.D. (Lond.), Director of Agriculture, Ramna, Dacca.	1
K. S. F. I. Waheed, B.A. (Cal.), Deputy Director of Agriculture, Rajshahi.	1
K. S. Mohammad Hussain Ali, C.C.A., Deputy Director of Agriculture, Sylhet.	1
A. M. Ahmed, B.Sc. (Agr.), Dip. Agr. (Cantab.), Deputy Director of Agriculture, Chittagong.	1
A. M. Chaudhry, B.Sc. (Agr.), Deputy Director of Agriculture, Barisal.	1
Moinuddin Ahmed, C.C.A., Chief Superintendent, Dacca Farms, Dacca: superintendence of farms.	1
Mohammad Ayub Ali Majumdar, C.C.A., Superintendent of Agriculture, Rajshahi: superintendence of agriculture.,	1
Sadul Huq, C.C.A., Superintendent of Agriculture, Sylhet: superintendence of agriculture.	1
Syed Modessir Ali, B.Agr., Assoc. I.A.R.I., Superintendent of Agriculture, Chittagong: superintendence of agriculture.	1
Abdul Halim, B.Sc., B.Agr., Superintendent of Agriculture, Barisal: superintendence of agriculture.	1
Mozammil Huq, B.Sc., B.Agr., District Agricultural Officer, Dacca: supervision of district work.	1
D. H. Ahmed, B.Sc., B.Agr., District Agricultural Officer, Mymensingh: supervision of district work.	1
S. S. Islam, B.Sc., B.Agr., District Agricultural Officer, Jamalpur (Mymensingh): supervision of district work.	1
Abdul Huq, B.Sc. (Agr.), District Agricultural Officer, Sylhet: supervision of district work.	1
Zahirul Huq Khan, B.Sc., B.Agr., District Agricultural Officer, Faridpur: supervision of district work.	1
Mansur Ahmed Sarkar, B.Sc. (Agr.), District Agricultural Officer, Barisal: supervision of district work.	1
Abdul Huq Bhuiyan, B.Sc., B.Agr., District Agricultural Officer, Khulna: supervision of district work.	1
Syeduddin Ahmed, B.Sc., B.Agr., District Agricultural Officer, Jessore: supervision of district work.	1
Mohammad Lutful Huq, B.Sc., B.Agr., District Agricultural Officer, Comilla: supervision of district work.	1
Mansur Ahmed, B.Sc. (Agr.), District Agricultural Officer, Noa-khali: supervision of district work.	1.
A. N. Safuddin Ahmed, B.Sc., B.Agr., District Agricultural Officer, Chittagong: supervision of district work.	1

PARISTAN	Subject
Naziruddin Ahmed, B.Sc., B.Agr., District Agricultural Officer,	1
Rangamati: supervision of district work. Shamsul Huq, B.Sc., B.Agr., District Agricultural Officer, Rajshahi: supervision of district work.	1
Sirajul Islam Barbhuian, B.Sc., B.Agr., District Agricultural Officer, Kushtia: supervision of district work.	1
Mullah Shamsuddin Ahmed, B.Sc., B.Agr., District Agricultural Officer, Pabna: supervision of district work.	1
Faizuddin Ahmed, B.Sc., B.Agr., District Agricultural Officer, Bogra: supervision of district work.	1
Abdus Samad, B.Sc., B.Agr., District Agricultural Officer, Rang- pur: supervision of district work.	1
Abdus Sattar, B.Sc., B.Agr., District Agricultural Officer, Dinaj- pur: supervision of district work.	1
Abdul Wahab, B.Sc., B.Agr., District Agricultural Officer, Naogaon (Rajshahi): supervision of district work.	1
CHEMICAL SECTION, Dacca. Dr. Mahammad Salaiman, M.Sa., Dh.D., Aquiaultunal Chemist.	5
Dr. Mohammad Sulaiman, M.Sc., Ph.D., Agricultural Chemist: plant chemistry.	
Mohammad Abdul Quader, M.Sc., Assistant Agricultural Chemist: plant chemistry.	5
A. M. Masud, M.Sc., Physical Chemist: plant chemistry.	5
Wahidul Islam, M.Sc., Research Assistant: plant chemistry. A. K. M. Fazal Huq, M.Sc., Research Assistant: plant chemistry.	5
B. I. Nurunnabi, M.Sc., Research Assistant: plant chemistry.	5
Sarawar Jan Bhuiyan, M.Sc., Research Assistant: plant chemistry.	5
Abdul Batan Khan, B.Sc., B.Agr., Research Assistant: plant chemistry.	5
Hafizur Rahman, M.Sc., Research Assistant: plant chemistry.	5
H. R. Malik, B.Sc., B.Agr., Research Assistant: plant chemistry.	5
Riyazuddin Taluqdar, B.Sc., B.Agr., Research Assistant: plant chemistry.	5
Jalaluddin Taluqdar, B.Sc., B.Agr., Research Assistant: plant chemistry.	5
Musharraf Hussain, B.Sc., B.Agr., Research Assistant: plant chemistry.	5
Alauddin Ahmed, B.Sc., B.Agr., Research Assistant: plant chemistry.	5
BIO-CHEMICAL SECTION, Rajshahi.	
Abdul Qadir, B.Sc., Assistant Bio-Chemist, Dacca: bio-chemistry. Najmul Huda, B.Sc., Assistant Bio-Chemist, Rajhahi: bio-chemistry.	25 25
BOTANICAL SECTION (CEREAL), Dacca.	
Imdad-ul-Huq Khan, M.Sc. (Alig.), B.Agr., M.S. (U.S.A.), Economic Botanist (Cereal): general botany.	3
Ghulam Yazdani, B.Sc. (Agr.), Assoc. I.A.R.I., Assistant Economic Botanist (Cereal): general botany.	.3
I. L. Sen, B.Agr., Botanical Assistant general botany	,

Abdul Huq, M.Sc. (Alig.), Botanical Assistant: general botany.	Subject 3
Afazuddin Ahmed, B.Sc., Botanical Assistant: general botany. Shah Husan-uz-Zaman, B.Sc., B.Agr., Botanical Assistant: general botany.	3
BOTANICAL SECTION (FIBRE), Dacca Dr. S. D. Chaudhry, Ph.D. (Lond.), Economic Botanist (Fibre):	3
general botany. Dr. A. Alim, M.Sc., Assoc. I.A.R.I., Ph.D. (U.S.A.), Assistant Economic Botanist (Fibre): general botany.	3
Najmul Huda, B.Sc. (Agr.), Botanical Assistant: general botany. Aminul Islam, B.Sc., Botanical Assistant: general botany.	3
Mazharul Islam, B.Sc. (Agr.), Botanical Assistant: general botany. Abdus Sattar, B.Sc., B.Agr., Botanical Assistant: general botany.	3
ENTOMOLOGICAL SECTION, Dacca	19
S. H. Hazarika, M.Sc., M.S. (U.S.A.), Entomologist: entomology. Mohammad Sirajul Huq, B.Sc., B.Agr., Assistant Entomologist: entomologiy.	19
Chitsagar Datta, B.Sc. (Agr.), Entomological Assistant: entomology. Zahirul Islam, B.Sc., B.Agr., Entomological Assistant: entomology.	19 19
Misbahuddin, B.Sc., B.Agr., Entomological Assistant: entomology.	19
Mycological Section, Dacca. A. H. M. A. Halim, B.Sc., B.Agr., Mycological Assistant: mycology.	20
K. M. Badruddusa, B.Sc., B.Agr., Mycological Assistant: mycology. Abdul Aziz, B.Agr., Mycological Assistant: mycology.	20 20
Engineering Section, Dacca. S. M. Najmul Huq, B.E. (Cal.), M.S. (U.S.A.), Agricultural Engineer: engineering.	28
Mazharul Huq, B.Sc., B.Agr., Assistant Agricultural Engineer: engineering.	28
STATISTICAL SECTION, Dacca. Mohammad Abdul Hakim, M.Sc. (Statistics), Statistical Officer:	29
statistics. Mohammad Musharraf Hussain, B.Sc., Statistical Assistant: statistics.	29
EAST BENGAL AGRICULTURAL INSTITUTE, Dacca Fariduddin Ahmed, M.A. (Agr.), M.Sc. (Botany), M.S. (Horticul-	3, 9
ture) (U.S.A.), <i>Principal</i> . Raqibuddin Ahmed, M.A., <i>Professor of Agricultural Economics</i> : economics.	27
S. Moshahid Ali, B.Sc., I.D.D., Superintendent of Agriculture (Livestock).	3
A. S. M. Kamaluddin, B.Sc., B.Agr., Botanist: general botany. M. R. Taluqdar, B.Sc. (Agr.), M.S. (U.S.A.), Agronomist: agronomy.	3

	Subject
S. B. Shahed, B.Sc. (Agr.), M.S. (U.S.A.), Agronomist: agronomy.	1
Amir Hussain, M.Sc., Professor of Micro-Biology: micro-biology.	22
S. A. Khan, B.Agr., Dip. Agr. (Cantab.), Professor of Agronomy:	1
agronomy.	00
Amiruddin Ahmed, B.Sc., B.Agr., Bacteriological Assistant:	22
bacteriology.	27
Mohammad Siddiqur Rahman, M.A., Assistant to Agricultural	41
Economist: economics.	27
Moslehuddin, B.Agr., Agronomical Assistant: agronomy.	20
Akbar Hussain, B.Sc., B.Agr., Mycological Assistant: mycology. A. T. M. Wahid, B.Sc., B.Agr., Entomological Assistant: en-	19
tomology.	
tomology.	
Department of Forests	
Dacca	
Y. S. Ahmed, M.A. (Cantab.), I.F.S., Conservator of Forests.	1
O. Ghani, M.Sc., E.B.S.F.S., Divisional Forest Officer, Working	10
Plans Division, Chittagong (East Bengal): management of	
virgin forests of mixed deciduous type in the tropical forests of	
East Pakistan.	10 11
N. Ahmed, B.Sc., E.B.S.F.S., Divisional Forest Officer, Utilization	10, 11
and Research Division, Chittagong (East Bengal): utilization	
of various indigenous hard woods and tapping of dipterocurpus	
species for oil, the yield of oil from trees of different sizes and species and the effect of tapping on the strength and properties	
of the timber.	
Department of Animal Husbandry	
Syed Mahmud Ali, B.Sc., M.R.C.V.S., Director of Animal Hus-	14, 15, 22
bandry, Comilla: animal breeding; animal nutrition; bacter-	
iology; viruses and related immunology.	
Nisar Ahmed Khan, B.Sc., M.Sc. (Animal Husbandry) (U.S.A.),	14, 17
Deputy Director (Production), Dacca: animal breeding; animal production.	
Abdul Hye, M.Sc., <i>Physiological Chemist</i> , Dacca: animal nutrition.	15
Mohd Yunus, M.Sc., Whey Officer, Dacca: animal production, in-	15
cluding dairying.	17
Syed Mohammed Ali, B.Sc., M.R.C.V.S., Principal, Eastern	22
Pakistan Veterinary College, Comilla: bacteriology; viruses and	to the same
related immunology.	
Mohd Akhtar Hussain, G.V.Sc., P.G. (Mukteshwar) P.G. (Eng.),	2.2
Superintendent, Veterinary Research Institute, Comilla: bacter-	-
iology; viruses and related immunology.	
Mohammed Naseem, G.V.Sc., M.Sc. (U.S.A.), Lecturer, Eastern	14
Pakistan Veterinary College, Comilla: animal breeding.	
Ruhul Amin, G.V.Sc., P.G. (Mukteshwar), Officer-in-Charge,	22
Poultry Vaccine Institute, Comilla: bacteriology; viruses and	
related immunology.	
Dr. Emdadul Huq, G.V.Sc., M.Sc., Ph.D. (Animal Husbandry)	14, 17
(U.S.A.), Superintendent, Animal Husbandry, Goat and Poultry	
Development, Dacca: animal breeding: animal nutrition (poultry as the special subject).	

CEYLON

DEPARTMENT OF AGRICULTURE

Peradeniya. (Tel.: Per. 221).	
	Subject
D. Rhind, O.B.E., B.Sc., F.L.S., Director of Agriculture. A. W. R. Joachim, M.B.E., Ph.D., B.Sc. (Lond.), F.I.C., Dip.	1
Agric. (Cantab.), Deputy Director of Agriculture.	
T. M. Z. Mahamooth, M.R.C.V.S., Deputy Director (Animal Husbandry) and Government Veterinary Surgeon.	1
B. A. Baptist, B.A., Ph.D. (Cantab.), B.Sc. (Lond.), Entomologist:	19
general entomological investigations.	1)
M. F. Chandraratna, Ph.D., B.Sc. (Lond.), D.I.C., Botanist: plant	3, 4
breeding and agronomic investigations. C. N. E. J. de Mel, B.Sc. (Lond.), B.Sc. (Agr.), Dip.Agr. (Wye),	1
Principal, Farm School, Peradeniya.	1
D. E. V. Koch, Ph.D., B.Sc. (Lond.), D.I.C., Chemist,	2, 5
J. W. L. Pieris, B.Sc., Ph.D. (Lond.), D.I.C., Plant Pathologist.	6
P. G. Malkani, B.A. (Hons.) (Bombay), B.Sc. (Vet.) (Lond.) M.R.C.V.S., Specialist in Animal Husbandry (Disease side): investigations on animal husbandry and diseases.	16, 18
D. M. Ratnatunga, B.Sc., (Engineering), A.M.I.C.E., A.M.I.Mech.E.,	28
A.M.I.E.E., A.M.I.A.E., A.F.R.Ae.S., M.S.A.E., M.A.S.A.E.,	
Agricultural Engineer.	4
G. V. Wickremesekera, A.I.C.T.A., Dip.Agr. (Poona), Agricultural Research Officer: plant breeding and agronomic investigations.	4
A. V. Richards, B.Sc. (Calif.), B.Sc. (Lond.), Dip.Agr. (Cantab.),	9
A.I.C.T.A. (Trinidad), Horticultural Officer: investigations	
regarding horticulture.	4
L. H. Fernando, B.Sc. (Lond.), Agricultural Research Officer. E. F. L. Abeyratne, B.Sc. (Lond.), Agricultural Research Officer.	4
D. V. Ariyanayagam, B.Sc. (Lond.), Agricultural Research Officer.	4
20 (Caraly and a	
FOREST DEPARTMENT	
Colombo	
H. E. C. Lushington, Dip. For. (Edinburgh), Conservator of Forests.	20
(Tel.: 5074).	11, 30
Col. C. P. Jayawardena, O.B.E. (Mil. Div.), E.D., M.A. (Oxon.), F.L.S., Dip. For., Senior Assistant Conservator of Forests. (Tel.: 4739).	11, 50
J. A. de Silva, B.A., Dip. For. (Oxon.), Senior Assistant Conser-	10
vator of Forests.	10 00
C. H. Holmes, B.A. (Cantab.), B.Sc. (Gen. and Sp.) (Lond.), Dip.	10, 26
For. (Oxon. and Cantab.), Senior Assistant Conservator of Forests: silvicultural research and timber technology.	
W. W. J. Mendis, B.Sc. (Ceylon), Technical Assistant: botanical	29
1 to the silvicultural research.	

RUBBER RESEARCH SCHEME	Subject
Dartonfield, Agalawatta. (Tel.: Aga. 66). Ernest Phillis, D.Sc., Ph.D. (Leeds), <i>Director</i> . H. E. Young, D.Sc. (Agr.) (Queensland), <i>Oidium Research Officer</i> :	1 20
problems relating to Oidium Heveae. C. A. de Silva, B.Sc. (Agr.) (Lond.), C.D.A. (Wye), <i>Botanist</i> : genetical and botanical work in relation to the rubber industry.	3
D. M. Fernando, B.Sc. (Ceylon), Research Assistant: botanical work in relation to the rubber industry.	3
M. S. Wijeratne, B.Sc. (Ceylon), Research Assistant: chemical work relating to the rubber industry. In London (Jointly with Malaya) G. Martin, B.Sc., A.R.I.C., F.I.R.I. H. C. Baker, M.Sc., A.R.I.C., A.I.R.I. W. G. Wren, B.Sc., A.R.C.S. Chemist: technological problems in relation to to rubber industry.	
TEA RESEARCH INSTITUTE	
St. Coombs, Talawakelle. R. V. Norris, D.Sc. (Lond.), M.Sc. (Manc.), F.R.I.C., <i>Director</i> . C. A. Loos, <i>Assistant Pathologist</i> : plant parasitic and free-living nematodes.	1 20, 21
G. B. Portsmouth, B.Sc., A.R.C.S., D.I.C., <i>Plant Physiologist</i> : plant physiological problems in relation to the tea industry.	3, 4
J. Lamb, M.Sc. (Lond.), A.I.C., A.I.C.T.A., Biochemist: problems connected with the manufacture of tea.	25
COCONUT RESEARCH SCHEME	
Bandirippuwa Estate, Lunuwila. (Tel.: Dankotuwa 95. 'Grams: Cocos-Negombo.)	
F. C. Cooke, B.Sc. (Lond.), A.R.C.Sc., A.M.I.Chem.E., <i>Director</i> . M. L. M. Salgado, Ph.D. (Cantab.), B.Sc. (Lond.), Dip. Agric. (Cantab.), <i>Soil Chemist</i> : soil and manurial problems relating to the coconut industry; effect of cover crops and cultivation on the coconut palm; pasture studies.	1, 28, 30 2, 8
W. R. N. Nathanael, B.Sc. (Lond.), Acting Technological Chemist: technological problems relating to the coconut industry, and the chemistry of oils and fats.	5, 24
D. V. Liyanage, B.Sc. (Lond.), <i>Acting Botanist</i> : botanical problems relating to the coconut palm; breeding and selection.	3, 4

DIVISION OF AGRICULTURE AND LANDS

Department of Agriculture	Subject
P.O. Box 25, Causeway, Salisbury. A. E. Romyn, M.C., Ph.D., Secretary for Agriculture and Lands. J. K. Chorley, F.R.E.S., Director of Research and Specialist Services. C. A. Murray, M.Sc. (Agr.), Assistant Director of Research and Specialist Services (Extension).	1, 18 1, 19 1, 18
Animal Husbandry	
J. C. Raath, M.Sc. (Agr.), Senior Animal Husbandry Officer. T. H. Vorster, M.Sc. (Agr.), Animal Husbandry Officer. C. A. Walker, Ph.D., Animal Husbandry Officer. I. M. Krige, B.Sc. (Agr.), Animal Husbandry Officer.	14, 15, 17 14, 15, 17 14, 17 15
DAIRYING	
J. R. Corry, B.Sc., Chief Dairy Officer. F. A. Lammas, Dip.Agr., Dairy Officer. R. E. Nicol, Dairy Officer. R. G. Jones, B.Sc., Dairy Officer.	1, 17 17 17 17
AGRICULTURE AND HORTICULTURE	
 D. E. McLoughlin, Cert. Agr., Chief Agriculturist. T. K. Sansom, B.Sc., Senior Plant Breeder: wheat; barley; sorghums and maize. 	1, 7 4, 7
C. N. Hayter, Cert. Hort., F.I.P.A. (S.A.), Senior Horticulturist:	9
sub-tropical and deciduous fruit and vegetables. A. G. H. Rattray, B.A., <i>Agriculturist</i> : hybrid maize; legumes and arable crops.	4, 7
H. H. Roberts, B.Sc., Agriculturist: arable crops.	7
CHEMISTRY A. D. Husband, F.R.I.C., Chief Chemist: soil and fertiliser investigations. B. S. Ellis, B.Sc., D.I.C., F.R.I.C.	1, 2, 24
J. F. Duguid, M.A., B.Sc. R. G. Thomas, B.Sc., A.R.I.C. D. H. Saunder, M.Sc., Ph.D. I. McDonald, B.A., B.Sc., A.R.I.C. Miss E. G. Giffard, B.Sc.	2, 24
H. Weinmann, Dr. Agr., D.Sc., Pasture Research Chemist (seconded)	2, 15
BOTANY AND PLANT PATHOLOGY	
J. C. F. Hopkins, D.Sc. (Lond.), A.I.C.T.A., Chief Botanist and Plant Pathologist: general botany; tobacco and vegetable	1, 3, 6
diseases; seed potatoes. G. R. Bates, Ph.D. (Lond.), Senior Plant Pathologist: tobacco and	6, 20
citrus diseases. E. A. Riley, B.Sc., D.I.C., Plant Pathologist: tobacco diseases.	6

	Subject
Jane G. Broadfoot, B.Sc. (Hons.), Plant Pathologist: general plant	6
diseases. H. Wild, Ph.D. (Lond.), D.I.C., Botanist: systematic botany; weed control.	3, 12
Kathleen S. Sturgeon, B.Sc., Botanist: systematic botany.	3
Entomology	
M. C. Mossop, A.F.C., M.Sc., Chief Entomologist. tsetse fly and general econ-	1, 19
M. C. Mossop, A.F.C., M.Sc., Chief Entomologist. J. A. Whellan, B.Sc., Entomologist. The second s	19
TOBACCO D. D. D. China Telegram Officers	1 7
D. D. Brown, Chief Tobacco Officer. J. C. Collins, B.Sc., Tobacco Officer: tobacco culture.	1, 7
Forestry	
E. J. Kelly Edwards, M.A., Dip. For. (Oxon.), Chief Conservator of Forests.	1, 10, 11
G. M. McGregor, B.Sc. (For.), Assistant Chief Conservator of Forests.	10, 11
A. A. Pardy, B.Sc., B.Sc. (For.), Conservator of Forests (Research). J. S. Wilkins, B.Sc. (For.), Conservator of Forests.	10, 11 10, 11
F. B. Armitage, B.Sc., B.A. (Hons.) (Oxon.) P. Banks, B.Sc. (For.) G. L. Guy, B.Sc. (For.)	10, 11
R. Hobbins, B.A. (Oxon.) Forest Officers.	10, 11
L. M. Hodgson, M.Sc.	
R. H. Hunt, B.Sc. (For.) A. B. Jeffrey, B.Sc. (For.)	
PASTURE RESEARCH	
R. R. Staples, M.A., Dip. Agr. (Cantab.), Chief Pasture Research Officer.	1, 8
H. Weinmann, D.Sc., Dr. Agr., M.Sc., Pasture Research Chemist.	2, 15
MATOPOS RESEARCH STATION, MATOPOS, BULAWAYO	
O. West, D.Sc., M.Sc., Senior Pasture Research Officer in charge.	8
T. C. D. Kennan, B.Sc. (Agr.), Pasture Research Officer.	8
A. V. Oates, B.Sc., Pasture Research Officer. D. C. H. Plowes, B.Sc., Pasture Research Officer.	8
PASTURE RESEARCH SUB-STATION, NYAMANDHLOUU.	
K. B. Addison, Pasture Research Officer.	8
GRASSLAND RESEARCH STATION, MARANDELLAS	
J. M. Rattray, M.Sc., Senior Pasture Research Officer in Charge.	8
H. D. L. Corby, B.Sc., A.I.C.T.A. (Trinidad), Pasture Research Officer.	8
C. K. Thompson, B.Sc. (Hons.), Pasture Research Officer.	8
W. B. Cleghorn, B.Sc., Pasture Research Officer.	8

HENDERSON RESEARCH STATION, MAZOE	Subject
E. D. Bumpus, Ph.D., B.Sc., Senior Pasture Research Officer in Charge.	8
Tobacco Research Station, Trelawney, P.B, Salisbury H. L. Pearse, Ph.D., D.I.C., Senior Tobacco Research Officer in Charge.	1, 3
Capt. C. E. Lowe, Eng./Capt. R.N. retd., C.B.E., Engineer. R. A. C. Daulton, B.Sc., Helminthologist. H. J. H. Boyd, B.Sc., Agronomist.	28 21 7
W. J. O'Neill, B.Agr.Sc., Agronomist. T. F. O'Callaghan, B.Agr.Sc., Agronomist.	7 7
P. V. M. Richards, B.Sc., Agronomist. E. A. Riley, B.Sc., D.I.C., Plant Pathologist (seconded).	7 6
TURKISH TOBACCO AND PLANT BREEDING STATION, P.B. 187 T., BULAWAYO.	
B. C. Akehurst, B.Sc., Tobacco Officer in Charge.	7
CIGAR TOBACCO EXPERIMENT STATION, P.O., CHIPINGA. C. A. van Pernis, Tobacco Officer, in Charge.	7
Irrigation Department	
P.O. Box 91, Causeway, Salisbury.	
P. H. Haviland, B.Sc., M.I.C.E., Director of Irrigation.	1, 28
R. H. Roberts, B.Sc., M.I.C.E., Assistant Director of Irrigation	1, 28
J. H. R. Savory, B.Sc. (Eng.), Circle Engineer, Bulawayo. S. W. Loewenson, B.Sc. (Eng.), A.M.I.C.E., Assistant Circle Engineer, Bulawayo.	28 28
J. E. White, A.M.I.C.E., Circle Engineer, Salisbury.	28
I. H. R. Shand, B.Sc. (Eng.), Assistant Circle Engineer, Salisbury. W. Lawley, O.B.E., A.C.G.I., D.I.C., Circle Engineer, Fort Victoria.	28 28
P. W. Kennedy, T.D., A.C.G.I., A.M.I.C.E., A.M.I.Mech.E., A.M.I.W.E., Assistant Circle Engineer, Fort Victoria.	28
H. W. H. Wallis, B.Sc. (Eng.), A.M.I.C.E., Hydrographic Engineer. R. S. Duncan, O.B.E., B.Sc. (Eng.), A.M.I.C.E., Designs Engineer.	28 28
H. L. Wells, B.Sc. (Eng.), Chief Reconnaissance Engineer.	28
T. W. R. Easton, B.Sc. (Eng.), Projects Engineer.	28
C. A. Anderson, A.M.I.Mech.E., Chief Mechanical Engineer.	28
B. G. Gundry, M.B.E., A.I.Mech.E., Agricultural Engineer.	28
Veterinary Department	
P.O. Box 12. CAUSEWAY, SALISBURY.	1, 16
P. D. Huston, M.R.C.V.S., Director of Veterinary Services. J. S. Adamson, M.R.C.V.S., B.Sc., D.T.V.M., Assistant Director of Veterinary Services: field.	1, 16
A. S. McChlery, M.R.C.V.S., District Veterinary Officer.	1, 16
W. J. Nixon, M.R.C.V.S., District Veterinary Officer.	1, 16
J. MacKinnon, M.R.C.V.S., District Veterinary Officer.	1, 16
A. MacGilp, M.R.C.V.S., District Veterinary Officer.	1, 16

H. K. Hesketh, M.R.C.V.S., District Veterinary Officer. T. Lees May, M.R.C.V.S., District Veterinary Officer. J. P. A. Morris, M.R.C.V.S., Assistant Veterinary Officer.	Subject 1, 16 1, 16 1, 16
A. E. Harrop, M.R.C.V.S., Assistant Veterinary Officer.	1, 16
J. Ross, M.R.C.V.S., Assistant Veterinary Officer.	1, 16
H. M. Hodkin, B.V.Sc., Assistant Veterinary Officer.	1, 16
T. Lithgow, M.R.C.V.S., Assistant Veterinary Officer.	1, 16
A. E. Gillespie, M.R.C.V.S., Assistant Veterinary Officer.	1, 16
J. H. Darbyshire, M.R.C.V.S., B.Sc. (Lond.), Assistant Veterinary Officer.	1, 16
Veterinary Research Department P.O. Box 101, Causeway, Salisbury.	
D. A. Lawrence, B.V.Sc., Assistant Director of Veterinary Services (Research).	1, 16
J. M. Williamson, M.R.C.V.S., B.Sc., Veterinary Research Officer.	16
DIVISION OF MINES AND TRANSPORT	
Meteorological Department P.O. Box. 66, CAUSEWAY, SALISBURY.	
N. P. Sellick, B.Sc., B.Sc. (Eng.), Director of Meteorological Services.	1, 26
J. S. Peake, B.Sc., Senior Meteorologist.	26

	COLONIAL OFFICE, LONDON	
	G. F. Clay, C.M.G., O.B.E., M.C., B.Sc., N.D.A., N.D.D. (Hons.), Agricultural Adviser.	Subjec
	G. W. Nye, O.B.E., B.Sc. (Agr.), Deputy Agricultural Adviser. L. Lord, M.A., Assistant Agricultural Adviser.	
	R. J. Simmons, C.B.E., M.R.C.V.S., Adviser on Animal Health. G. A. C. Herklots, M.Sc., Ph.D., F.L.S., Secretary for Colonial Agricultural Research.	
	W. A. Robertson, Forestry Adviser.C. B. Symes, O.B.E., in charge of research (Colonial Insecticides	
	Committee).	
	W. A. Allan, M.R.C.V.S., D.T.V.M., Assistant Adviser on Animal Health.	
	OLONIAL INSECTICIDES RESEARCH UNIT (COLONIA INSECTICIDES COMMITTEE)	AL
2	Headquarters: Arusha, Tanganyika.	
	K. S. Hocking, B.Sc., Entomologist-in-charge.	19
	H. C. M. Pair, B.Sc., Entomologist.	19
	P. A. Robins, Ph.D., Chemist.	. 24
	P. R. Wilkinson, M.A., Entomologist.	19
	D. A. Yeo, B.Sc., Physicist.	19
	R. E. Rapley, Laboratory Technician.	24
	E. T. Mesmer, Laboratory Assistant.	19
	G. C. Dauber, Senior Field Executive Officer.	19
	K. E. Woodcock, Field Officer. R. C. Sell, Field Officer.	19 19
	J. Macfarlane, Field Officer.	19
	D. G. Anstey, Field Officer.	19
	T. R. Jones, Field Officer.	19
C	OLONIAL INSECTICIDE RESEARCH LABORATORY, PO (COLONIAL INSECTICIDE COMMITTEE)	DRION
	Headquarters: Ministry of Supply, Chemical Defence Experi-	
1	mental Establishment, Porton, near Salisbury.	10
	A. B. Hadaway, Ph.D., Entomologist.	19
	P. Bracey, B.Sc., Entomologist.	19
	F. Barlow, B.Sc., Chemist.	24 24
	D. J. Hall, Scientific Assistant.	41
	ANTI-LOCUST RESEARCH CENTRE (Headquarters: British Museum (Natural History), London.	
	(Tel.: Kensington 6323. Ext. 267.)	
	B. P. Uvarov, C.M.G., D.Sc., Director.	19
	D. L. Gunn, D.Sc., Ph.D., Principal Scientific Officer: co-ordina-	19
	tion of laboratory and of field researches; locust behaviour and	
	aircraft control methods.	
	Miss Z. V. Waloff, M.Sc., Senior Scientific Officer: locust bio-	19, 26
5	climatics; migrations.	

	Subject
Mrs. M. J. Richards, Ph.D., Research Worker: locust fecundity and fertility.	19
V. M. Dirsh, D.Sc., Research Worker: taxonomic research on locusts.	19
D. E. Davies, B.Sc., <i>Experimental Officer</i> : supervision of mapping; current information and forecasting.	19, 29
P. Hunter Jones, B.Sc., Assistant Experimental Officer (Acting Scientific Officer): supervision of locust laboratory.	19
Miss E. M. Ralfs, B.A., Experimental Officer: bibliography.	19
Mrs. J. Rooke, Assistant Experimental Officer: mapping.	19
Miss J. M. E. Fortescue-Foulkes, B.A., Assistant Experimental Officer: mapping.	19
Miss A. M. Taylor, B.Sc., Assistant Experimental Officer: locust laboratory.	19
R. C. Elliott, Assistant Experimental Officer: locust laboratory (temporary).	19
Miss L. R. Day, Assistant (Scientific): locust laboratory (temporary).	19
A. T. Thompson, Secretary.	19.
. WEST AFRICA	
West African Cacao Research Institutes	
Tafo, Gold Coast.	
O. J. Voelcker, C.B.E., M.A., A.I.C.T.A., Director of Cacao Research.	1
J. West, B.S.A., A.I.C.T.A., Deputy Director.	1
DIVISION OF PATHOLOGY AND BOTANY	
J. McA. Todd, B.Sc., A.I.C.T.A., Plant Pathologist.	6, 22
A. H. Strickland, M.A., A.I.C.T.A., F.R.E.S., Entomologist: virus	19
vectors.	17
H. Owen, B.Sc., A.I.C.T.A., Plant Pathologist.	6, 20
Division of Entomology	
J. Nicol, B.Sc. (For.), A.R.P.S., Senior Entomologist.	10
R. G. Donald, B.Sc., A.I.C.T.A., F.R.E.S., Entomologist.	19
G. Williams, B.Sc., A.I.C.T.A., Entomologist.	19
A. J. P. Goodchild, B.Sc., Entomologist.	19
Division of Soil Science and Chemistry	
J. A. R. MacLean, B.Sc., A.I.C., Ph.D., Chemist.	= 1=
	5, 25
Temporary Appointment	
T. E. Wasowicz, M.Sc., Ph.D., Soil Scientist.	2
Division of Agronomy	
R. J. Benstead, N.D.A., C.D.A., Agronomist.	0, 12
Temporary Appointment	
E. W. Alther, Dip.Agr., S.F.I.T., Agronomist.	0 22

7	GAMBIA	Subject
	DEPARTMENT OF AGRICULTURE Bathurst.	
J.	H. Palmer, B.A. (Cantab.), A.I.C.T.A., Senior Agricultural Officer.	20
R P	. A. Kitching, Diploma in Agriculture (Edin.), Agricultural Officer A. Donovan, B.Sc. (St. Andrews), Dip.Agric. (Cantab.), Agricultural Officer.	20 20
VI.	A. Wright, B.Agr. (Q.U.B.), Dip.Agr. (Cantab.), A.I.C.T.A., Agricultural Officer.	20
	VETERINARY DEPARTMENT	
Α.	Fulton, M.R.C.V.S., Director of Veterinary Services, Gambia— 1 Sierra Leone.	1, 13, 14, 22, 23
	GOLD COAST	
*	DEPARTMENT OF AGRICULTURE	
	H. Urquhart, B.Sc. (Agr.), Director.	1
	D. Linton, B.Sc. (Agr.) (Belfast), A.I.C.T.A., Deputy Director.	1
	D. Broatch, B.Sc. (Agr.) (Edin.), A.I.C.T.A., Deputy Director (Cocoa Industry).	1
	L. Skidmore, B.Sc. (Agr.) (Lond.), Dip.Agr. (S.E.A.C.), A.I.C.T.A.	1
	Assistant Director.	
	L. Hay, M.B.E., B.Sc. (Agr.) (Glas.), A.I.C.T.A., Assistant Director (Cocoa Industry).	1
	F. Charter, M.A., Chief Soil Scientist.	2
	Smith, B.A. (Agr.) (Oxon.), Principal Agricultural Education	1
	Officer.	0.7
	N. Coombes, B.Sc. (Econ.) (Lond.). (Upper 2nd Class Hons.),	27
C.	Dip.Agr. (Mauritius), Agricultural Economist. W. Lynn, M.B.E., Dip.Agr. (Wye), A.I.C.T.A., Senior Agricultural Officer. (Seconded to I.C.T.A., Trinidad.)	1
J.	M. Ward, N.D.A., N.D.D., Dip.Agr. (Oxon.), A.I.C.T.A., Senior	1
2	Agricultural Officer.	1
	E. Moss, B.Sc. (Agr.), Dip.Agr. (Wye), A.I.C.T.A., Senior Agricultural Officer.	1
	Jones, B.Sc. (Wales), A.I.C.T.A., Senior Agricultural Officer.	1
	R. B. Mullan, M.A. (Cantab.), Senior Agricultural Officer.	1
M.	Akenhead, B.Sc. (Agr.) (Lond.), Dip.Agr. (Wye), A.I.C.T.A.,	1
T	Senior Agricultural Officer. O. Torto, B.Sc. (California), A.I.C.T.A., Senior Agricultural	1
	Officer.	_
J. (Cofie, B.Sc. (California), Senior Agricultural Officer.	1
G.	R. Spurrell, E.D., B.A. (Cantab.), Senior Agricultural Officer.	1
	Smith, B.A., Dip.Agr. (Cantab.), A.I.C.T.A., Senior Agricultural	1
I	Officer. H. Hinds, B.Sc. (Hons.) (Botany) (Wales), A.I.C.T.A., Senior	1, 8
	Agricultural Officer: grasses.	

COLONIAL TERRITORIES	Subject
W. B. Mason, C.D.A. (Wye), A.I.C.T.A., Agricultural Officer.	1
I. Sibson, N.D.A., Dip.Agr. (Durham), D.T.A., Agricultural Officer.	1
D. Westwood, B.Sc., A.R.C.S., A.I.C.T.A., Agricultural Officer.	1
D. J. Billes, B.Sc. (Lond.), A.I.C.T.A., A.R.C.S., F.R.E.S., Agri-	1
cultural Officer. M. A. Blane, B.Sc. (Agr.) (Lond.), Agricultural Officer.	1
B. J. Silk, B.Sc. (Agr.), Dip. Agr. (Wye), A.I.C.T.A., Agricultura	1
Officer: agricultural education.	
P. S. Hammond, B.Sc. (Agr.), A.I.C.T.A., Agricultural Officer.	1
A. Lesslie, B.Sc. (Botany and Zoology), A.I.C.T.A., Agricultural Officer.	1
L. F. Derraugh, B.Agr., A.I.C.T.A., Agricultural Officer.	1
R. W. Eccles, B.Sc. (Agr.), Agricultural Officer.	1
F. A. Leeds, Dip.Agr. (Wye), Agricultural Officer.	1
J. L. Jollans, B.A. (Cantab.), A.I.C.T.A., Agricultural Officer. P. S. Castle, B.A. (Agr.) (Cantab.), Agricultural Officer.	1
W. Smith, College Dip. Agr., N.D.A., Agricultural Officer.	1
A. K. Asem, B.A. (Cantab.), Agricultural Officer.	1
H. Vine, B.Sc., Ph.D., A.I.C.T.A., Senior Soil Scientist. (Se-	2, 24
conded from Nigeria). C. A. Thorold, M.A. (Oxon.), A.I.C.T.A., Specialist: plant path-	6
ology.	
C. A. Lister, B.Sc. (Bot.), Specialist: plant pathology.	6
P. H. Nye, B.Sc. (Oxon), B.A. (Hons.) (Oxon.), Specialist: chem-	24
istry. W. A. Hughes, B.Sc. (Hons.) (Wales), Specialist: entomology.	19
J. Bowden, B.Sc. (Hons.) (Bristol), Specialist: entomology.	19
R. A. Neve, B.Sc. (Agr.) (Hons.), Agr. Botany (Reading), Dip. Agr.	. 4
Science (Cantab), Specialist: plant breeder. P. S. L. Benton, R.H.S. General Certificate, Kew Certificate,	9
Horticulturist.	9
Accra.	
R. L. Brooks, Dip.For. (Edin.), Chief Conservator of Forests,	1
Officer in Charge.	
G. H. Thompson, B.A., Assistant Conservator of Forests, Entomologist.	149
C. J. Taylor, B.Sc., Senior Assistant Conservator of Forests, Silvi-	10
culturist.	
ANIMAL HEALTH DEPARTMENT	
Accra	
S. Simpson, M.R.C.V.S., Director of Veterinary Services: in charge	1, 14, 10
Nungwa (Accra): diagnostic laboratory and field investigational work.	18
F. W. Aston, M.R.C.V.S., Deputy Director of Veterinary Services:	16, 18
field investigational work.	0
R. A. Hutchinson, B.Sc., M.R.C.V.S., Senior Veterinary Officer:	14, 16, 18
in charge Pong-Tamale: diagnostic, serum and vaccin laboratory; and field investigational work.	
ory, and neid investigational work.	•

W A C D' LA MED CATA	Subject
W. A. G. Richter, M.R.C.V.S.: field investigational work.	16, 18
J. L. McCulloch, M.R.C.V.S.: field investigational work.	16, 18

NIGERIA

AGRICULTURE DEPARTMENT

Ibadan	
A. G. Beattie, B.S.A., Director of Agriculture: administration.	1
J. D. Brown, B.Sc., Deputy Director of Agriculture (Headquarters):	1
administration. J. W. Wallace, B.Sc., Deputy Director of Agriculture, Northern	1
Provinces: administration.	1
M. Park, A.R.C.S. (Lond.), Deputy Director of Agriculture, Eastern	1
Provinces: administration.	
R. Johns, N.D.A., A.I.C.T.A., Deputy Director of Agriculture, Western Provinces: administration.	1
D. H. Brown, Cert. of Agr., A.I.C.T.A., Assistant Director of Agri-	1
culture: administration.	1
S. D. Ross, B.Sc., Assistant Director of Agriculture: administration.	1
F. W. Toovey, A.R.C.S., B.Sc. (Hons.), Officer in Charge, Oil Palm	1
Research Station: administration (research).	4
M. Greenwood, M.Sc., Principal Agricultural Officer: soil chemistry, etc.	1
D. H. Welch, B.Sc. (Hons.), A.I.C.T.A., Principal, Agricultural	1
School.	_
T. A. Phillips, B.Sc. (Hort.), A.I.C.T.A., Principal, Agricultural	1
School.	4
Capt. R. B. Shorter, Dip.Agr., Senior Agricultural Officer: extension work, Northern Provinces.	1
E. T. Holmes, Dip. Agr., Senior Agricultural Officer: extension	1
work, Northern Provinces.	~
F. E. Buckley, A.R.C.S., A.I.C.T.A., Senior Agricultural Officer:	1
administration.	4
A. V. Gibberd, N.D.A., N.D.D., A.I.C.T.A., Senior Agricultural Officer: administration.	1
A. F. W. Sheffield, A.I.C.T.A., D.I.C.T.A., Senior Agricultural	1
Officer: administration.	
E. W. Momber, B.Sc., Dip.Agr., A.I.C.T.A., Senior Agricultural	1
Officer: extension work, Northern Provinces.	4
M. W. Gibbon, B.A., A.I.C.T.A., Senior Agricultural Officer: ex-	1
tension work, Northern Provinces. W. T. Dalgarno, M.A., B.Sc., A.I.C.T.A., Senior Agricultural	1
Officer: extension work, Northern Provinces.	_
J. F. Ward, Dip. in Horticulture, M.A., Senior Agricultural Officer:	1
extension work, Northern Provinces.	1
V. F. O. Olivier, B.Sc., A.I.C.T.A., Agricultural Officer: extension	1
work, Northern Provinces. J. M. Usher-Wilson, B.S.A., A.I.C.T.A., Agricultural Officer: ex-	1
tension work, Northern Provinces.	

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- J. D. Tallantire, B.Sc., N.D.A. (Hons.), A.I.C.T.A., Agricultural Officer: extension work, Eastern Provinces.
- R. F. A. L. Reed, B.Sc. (Hons.), A.I.C.T.A., Agricultural Officer: extension work, Northern Provinces.
- C. H. F. Walker, B.A., A.I.C.T.A., Agricultural Officer: administration.
- W. F. Gwilliam, N.D.A., Dip.Agr., Agricultural Officer: extension work, Eastern Provinces.
- J. R. Brown, B.Sc., A.I.C.T.A., Agricultural Officer: extension work, Eastern Provinces.
- E. J. Butler, B.A., Agricultural Officer: extension work, Northern Provinces.
- T. N. Greeves, B.Sc., Master of Agr., Agricultural Officer: extension work, Northern Provinces.
- F. J. Harper, B.Sc., A.I.C.T.A., Agricultural Officer: farm and extension work, Colony.
- P. A. Gething, B.A., Dip.Agr., A.I.C.T.A., Agricultural Officer: extension work, Eastern Provinces.
- J. W. D. Goodban, B.A., Agr.Dip., A.I.C.T.A., Agricultural Officer: extension work, Northern Provinces.
- V. E. Gale, B.Sc., A.I.C.T.A., Agricultural Officer: extension work, Western Provinces.
- A. H. S. Vigo, Agricultural Officer: extension work, Northern Provinces.
- T. E. Ryall, B.Sc., A.I.C.T.A., Agricultural Officer: farm and extension work, Northern Privinces.
- D. B. Jamieson, B.Sc., Agricultural Officer: extension work, Eastern Provinces.
- J. A. K. Thompson, B.A., Agricultural Officer: seconded to St. Helena.
- S. Hunter, B.Sc., A.I.C.T.A., Agricultural Officer: Agricultural School.
- H. J. Taylor, Dip. (Hons.), S.E.A.C.Cert., Agricultural Officer: extension work, Western Provinces.
- R. B. Warner, B.A., Agricultural Officer: administration.
- T. D. Smith, B.Sc., N.D.A., Agricultural Officer: farm work, Western Provinces.
- L. D. G. Cromwell, Agricultural Officer: Agricultural School.
- F. G. Bridges, B.A., Agricultural Officer: Farm School.
- W. J. C. Little, B.A., A.I.C.T.A., Agricultural Officer: extension work, Western Provinces.
- J. S. Campbell, B.Sc., Dip.Agr., Agricultural Officer: Botany Section.
- Miss D. I. Mortimer, B.Sc., Agricultural Officer: extension work, Eastern Provinces.
- P. Mulholland, Dip.Agr., Agricultural Superintendent: extension work, Northern Provinces.
- R. Miller, Dip.Agr., Agricultural Superintendent: extension work, Eastern Provinces.
- R. F. S. Hainsworth, B.Sc., Agricultural Superintendent: extension work, Northern Provinces.

	Subject
J. A. Carter, Dip.Agr., Agricultural Superintendent: Shika Stock Farm.	Subject 1
J. O. I. Longe, A.I.C.T.A., Agricultural Superintendent: extension work, Colony.	1
J. A. Makinde, Agricultural Superintendent: extension work, Wes-	1
tern Provinces. T. S. B. Aribisala, Agricultural Superintendent: Agricultural	1
School D. R. E. Jackson, B.A., Agricultural Superintendent: extension	1
work, Eastern Provinces. T. E. Geddie, B.Sc., Dip.Agr., Agricultural Superintendent: exten-	1
sion work, Eastern Provinces. H. Vine, B.Sc., Ph.D., A.I.C.T.A., Chemist: Seconded to Gold	2, 24
Coast. H. Irving, B.Sc., Chemist: soil chemistry, etc.	24
A. Pickles, M.Sc., A.I.C.T.A., Entomologist: insect pest; locust control.	19
J. T. Davey, B.Sc. (Hons.), A.I.C.T.A., Entomologist: insect pest;	19
W. E. Freeman, B.Sc., A.R.C.S., A.I.C.T.A., Senior Botanist:	4
plant breeding, etc. T. A. Russell, B.Sc. (Hons.), A.R.C.S., A.I.C.T.A., Dip.Agric.,	4
Senior Botanist: plant breeding, etc. J. H. Gisborne, B.A., A.I.C.T.A., Botanist: plant breeding, etc.	4
G. Browne, Agricultural Engineer: soil conservation; mechanical cultivation.	28
W. J. Benson, Civil Engineer (Chartered), Irrigation Engineer: Seconded from P.W.D.	28
J. Kitching, B.Sc., A.M.I.C.E., Specialist Officer: irrigation. A. C. Trueblood, B.A., A.I.C.T.A., Agronomist: agronomy.	28
D. H. Maggs, B.Sc. (Hons.), Geneticist (Plant Breeder): plant breeding, etc.	4
J. M. Waterston, B.Sc. (Hons.), A.I.C.T.A., Pathologist: plant	6
pathology.	
VETERINARY DEPARTMENT	
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vices. R. W. M. Mettam, M.Sc., M.R.C.V.S., Assistant Director of Labour	1, 16, 22, 23
Services. R. S. Marshall, M.R.C.V.S., D.V.S.M., Deputy Director of Veterin-	
inary Services. R. J. Garner, M.A., M.R.C.V.S., Veterinary Research Officer.	25
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ary Research Officer. G. Williamson, O.B.E., M.R.C.V.S., D.V.S.M., Principal, Veterin-	15, 18
ary School. A. L. C. Thorne, M.R.C.V.S., Veterinary Research Officer.	22
, 25, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	

	Subject
MEDICAL DEPARTMENT	Subject
T. A. M. Nash, D.Sc., Entomologist. J. L. McLetchie, M.B., Ch.B. (Glas.), Senior Medical Officer,	19 19, 23
Sleeping Sickness Service: disease control by naturalistic methods. Col. H. W. Mulligan, M.B., Ch.B., M.D. (Hons.), D.Sc., D.T.M., Director of West African Institute for Trypanosomiasis Research.	18, 23
A. J. Duggan, M.B., B.S., West African Institute for Trypan-osomiasis Research.	18, 23
F. L. Vanderplank, B.Sc., Ph.D., Entomologist, West African Institute for Trypanosomiasis Research.	19
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J. A. Austin, B.Sc. (Reading), Agricultural Officer.	1
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(Kutgers).	_
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H. J. Williams, N.D.A.	1
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Freetown	
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of Forests.	**
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R. M. Palmer, B.Sc. (For.) (Aberdeen).	
A. J. Browning, M.A. (Oxon.) A. C. Frith, B.Sc. (For.) (Aberdeen).	10
I. G. Bulmer, B.Sc. (For.) (Edin.).	
2. d. Daniel, D. D. (1 01.) (Edin.).	
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EAST AFRICA	
FAST AFRICAN AGRICULTURE AND FORESTRY RE	SEARCH
	SEARCH
ORGANIZATION, NAIROBI, KENYA	SEARCH
ORGANIZATION, NAIROBI, KENYA Kenya (P.O. Box 601).	SEARCH
ORGANIZATION, NAIROBI, KENYA	SEARCH
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	Subject
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Doris M. Cooper: analytical chemistry.	2
Audrey K. Ryland, B.Sc., : plant pathology.	6 2
Elizabeth Smith, B.Sc.: spectrography.	4
EAST AFRICAN VETERINARY RESEARCH ORGANISAT	TION
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H. R. Binns, O.B.E., M.A., B.Sc., M.R.C.V.S., Principal Scientific Officer: bovine pleuropneumonia.	22
R. N. T. W. Fiennes, B.A., M.R.C.V.S., Senior Veterinary Research Officer: trypanosomiasis.	23
S. F. Barnett, Ph.D., B.Sc., M.R.C.V.S., Veterinary Research Officer: theileriasis.	23
J. G. Brotherston, M.R.C.V.S., Senior Scientific Officer: rinder- pest.	22
A. E. G. Markham, B.Sc., M.R.C.V.S., Veterinary Research Officer: tuberculosis.	22
J. A. Dinnik, Dr. Biol. Sci., Senior Scientific Officer: studies on helminth larvae on pasture.	21
J. R. Todd, B.Sc., B.Agr., Dip. Agr. Sc. (Cantab.), Scientific Officer: nutrition and nutritional diseases.	15, 25
Jane B. Walker, B.Sc., Research Officer: studies on ticks.	19
BRITISH SOMALILAND	
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virus diseases of plants, forest pathology; seed borne diseases; seed testing.	0, 20
R. H. Le Pelley, B.Sc., Ph.D., A.R.C.S., D.I.C., F.R.E.S., Senior Entomologist.	19
G. H. Gethin Jones, M.Sc., Senior Soil Chemist: soil classification and land utilisation surveys; phosphate state of local soil types;	2, 12, 24
development of local sources of phosphatic fertilisers; pot culture studies.	

H. C. Thorpe, B.Sc., A.R.C.S., A.I.C.T.A., Senior Plant Breeder. D. C. Edwards, B.Sc., Senior Pasture Research Officer: ecology. A. C. Maher, M.A., Dip.Agr., A.I.C.T.A., Senior Soil Conservation	Subject 4, 7 8 1, 28
Officer.	
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ogist: coffee. H. C. Pereira, B.Sc., Ph.D., Agricultural Chemist: coffee: soil physics.	2, 26
G. W. Gaddum, B.Sc. (Agr.), Dip.Agr., A.I.C.T.A., Agricultural Officer (Pyrethrum): field experimentation with pyrethrum.	7
T. H. Jackson, Dip. Hortic., Agricultural Officer (Horticulture). A. F. Nichols, Dip. Agr., A.I.C.T.A., Agricultural Officer (Sisal):	9 12
field experimentation with sisal. P. A. Jones, B.A. (Agr.), Agricultural Officer (Coffee): field experimentation with coffee.	12
A. Bogdan (one time Lecturer in Botany, University of Rostov), Pasture Research Officer.	8
J. F. Graham, M.Sc., Entomologist.	19
A. Bolton, B.Sc., Plant Breeder.	4, 7
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J. E. P. Booth, B.Sc. (Agr.), Dip.Agr., A.I.C.T.A., Senior Agricultural Officer.	1
F. B. Wilson, M.B.E., M.A., Dip.Agr., A.I.C.T.A., Senior Agricultural Officer.	1
F. H. Ormerod, M.A., A.I.C.T.A., Agricultural Officer.	1
G. S. Cowley, D.F.C., Dip.Agr., A.I.C.T.A., Agricultural Officer.	1 1
L. H. Brown, B.Sc., A.I.C.T.A., Agricultural Officer.	1
A. E. Pound, B.Sc. (Agr.), Agricultural Officer. E. Bellis, B.Sc., A.I.C.T.A., Agricultural Officer.	1
R. C. Williams, Dip.Agr., A.I.C.T.A., Agricultural Officer.	1
A. Storrar, B.Sc. (Agr.), A.I.C.T.A., Agricultural Officer.	1
G. Gamble, Agricultural Officer.	1
H. T. Lloyd, Agricultural Officer.	1
G. B. Rattray, B.Sc., A.I.C.T.A., Agricultural Officer.	1
M. A. Barrett, B.Sc. (Dairying), Agricultural Officer. A. W. Thompson, Agricultural Officer.	1
E. C. M. Green, Agricultural Officer.	1
G. R. Henderson, D.S.C., B.Sc. (Agr.), Agricultural Officer.	1
E. S. Porter, B.Sc. (Agr.), Agricultural Officer.	1
T. B. Spence, B.Sc., Agricultural Officer.	1
FORESTRY DEPARTMENT	
Nairobi. J. C. Rammell, M.A., Forestry Dip. (Oxon.), Conservator of Forests.	1
R. M. Graham, Forestry Dip. (Oxon.), Senior Assistant Conservator	10
of Forests—Silviculturist (Plantation) Research.	

R. A. C. Skipper, A.M.I.C.E., Utilisation Officer—Timber.	Subject
J. C. M. Gardner, A.R.C.S., D.I.C., Forestry Dip. (Cam.), Forest Entomologist.	19
DEPARTMENT OF VETERINARY SERVICES Kabete. (Tel.: Nairobi 2646).	
E. Beaumont, M.R.C.V.S., D.V.S.M., Director of Veterinary Services. H. S. Purchase, Ph.D., B.Sc., F.R.C.V.S., Chief Veterinary Research	1 15, 16, 22
Officer. E. A. Lewis, M.Sc., Ph.D., Chief Field Zoologist and Executive Officer, Tsetse Committee.	19, 23
J. Anderson, D.Sc., Ph.D., M.R.C.V.S., Senior Veterinary Research Officer, Experimental Station, Naivasha.	14, 16, 22
S. E. Piercy, Ph.D., B.Sc., M.R.C.V.S., Dip. Agr., Veterinary Research Officer.	22
M. F. Fitzpatrick, M.R.C.V.S., D.V.S.M., Veterinary Research Officer.	22
Mrs. R. M. Simpson, M.R.C.V.S., Veterinary Research Officer. Miss B. L. Duthy, B.Sc. (Hons.) (Lond.), Zoologist. Miss U. S. McCurdy, M.A. (Edin.), F.L.A., Librarian.	22 21
TANGANYIKA	
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Agriculture. Tel. Dar es Salaam 470. H. R. Smart, B.Sc. (Agr.) (South Africa), A.I.C.T.A. Senior	1
Agricultural Officer. Tel. Dar es Salaam 865. F. R. Sanders, B.A. (Hons.) (Cantab.), C.D.A., Senior Research Officer, In Charge of Coffee Research Station, Lyamungu. (Tel.:	1, 2, 8, 9, 17
Moshi 91. P.O. Moshi). G. B. Wallace, B.Sc., Ph.D., Plant Pathologist: mainly engaged on	
research with coffee, also crops in general. Lyamungu. (Tel.: Moshi 91. P.O. Moshi).	22
F. B. Notley, M.Sc., A.I.C.T.A., <i>Entomologist</i> : mainly engaged on coffee: locust control. (Tel.: Moshi 91. Lyamungu. P.O. Moshi	
G. W. Lock, O.B.E., N.D.A., N.D.D., Senior Research Officer, Sisal Advisory Officer, In Charge of Sisal Experiment Station, Mlingano: field investigations on sisal and cross breeding. (Tel.: Ngomeni 8. P.O. Ngomeni.)	1, 2, 4, 6, 7,
C. J. McGregor, C.D.A., Senior Agricultural Officer: experimental work on potatoes.	
A. H. Savile, C.D.A., A.I.C.T.A., Senior Agricultural Officer.	
N. V. Rounce, C.D.A., A.I.C.T.A., Senior general investigational	1, 7, 8
A. S. Stenhouse, B.Sc., B.Sc. (Agr.) (Aberdeen), N.D.A., Senior Agricultural Officer	
A. Pitcairn, Dip.Agr. (Edin.), Senior Agricultural Officer. (Tel.: Dar-es-Salaam 865)	

D. Thornton, B.Sc., Senior Agricultural Officer, Soil Conservation 1,	Subject 7, 8, 28
Officer, In Charge of Soil Conservation Service. P.O. Arusha. H. Doggett, B.A. (Cantab.), A.I.C.T.A., Botanist, P.O. Ukiriguru 3	, 4, 7, 8
Experiment Station, P.O. Fela, Lake Province. E. C. Diekmahns, B.Sc. (Hons.) (Glas.), Dip.Agr. (Cantab.)., Plant Physiologist—Sisal Experiment Station, Mlingano. Tel.: Ngomeni 8. P.O. Ngomeni. Study of mineral nutrition of Agave sisalana and its relation to deficiency diseases. A preliminary survey of the uses of growth promoting substances in relation to the quick establishment of the sisal plant.	3, 12
R. J. M. Swynnerton, M.C., B.A., Dip.Agr. (Cantab.), A.I.C.T.A.:	1, 7, 8
Senior Agricultural Officer. J. K. Robertson, B.Sc. (Agr.) (Aberdeen), A.I.C.T.A., Agricultural Officer.	1
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J. B. Clegg, B.A. (Agr.), Agricultural Officer. W. G. Brookbank, Dip.Agr. (Cantab.), A.I.C.T.A. I. E. Davies, B.A. (Cantab.), B.Sc. (Agr.).	1, 7, 8
N. E. S. Mutter, B.Sc. (Agr.). D. H. Drennan, B.Sc. Ireland, Dip. (Agr.) (Cantab.). A. Jefferiss, B.Sc. (Hort.) (Reading), Kew. Cert. L. M. Fernie, Horticulturist, Coffee Research Station, Lyamungu: mainly engaged on the vegetation reproduction of coffee and general coffee experimental work. (Tel: Moshi 91. P.O. Moshi).	1, 7, 8 1, 7, 8 9
OF VETERINARY SCIENCE AND ANIM	ΔL

DEPARTMENT OF VETERINARY SCIENCE AND ANIMAL HUSBANDRY

Mpwapwa.

J. K. H. Wilde, M.R.C.V.S., M.Sc., B.Sc. (Hons.), A.R.C.S., Chief 1, 13, 15

Veterinary Research Officer.

J. Robson, M.R.C.V.S., B.Sc., Veterinary Research Officer.

H. J. van Rensburg, M.Sc., Pasture Research Officer.

2, 3, 8

		Subject
Tumbi. G. D. Scott, B.Sc., Pasture Research Officer.		2, 3, 8
DEPARTMENT OF TSETSE SURVEY AND R	ECLAMATI	ON
Shinyanga. H. M. Lloyd, A.R.C.S., F.R.E.S., Director and recommenda-	Arusha.	19
A. G. H. Dufrayer, Provincial tions for tsetse	Kondoa.	19
H. Harrison, Provincial Tsetse	Arusha.	19
Officer (Temp.) J. P. Bradley, Provincial Tsetse Officer (Acting).	Mwanza.	19
FOREST DEPARTMENT		
Morogoro.	. 11 1	2 10 11
W. M. Robertson, B.Sc. (For.), Conservator of Forests: tion of investigations and experiments as designed furthering the economic development and systematic of forest resources.	d towards	3, 10, 11
L. G. T. Wigg, M.A., Dip.For., Senior Assistant Cons. Forests: assisting above and in systematic botany.	servator of 1,	3, 10, 11
H. Fraser, B.Sc. (For.): working plans and forest statist	tics.	10
Malya. M. S. Parry, B.A. (For.), Silviculturist: botanical and study; experimental regeneration and propagation; tions of growth rate and volume production; determ cultural and economic values of selected species; al study of various fire-protection methods; identific classification of East African woods according to the scopic features, and record thereof by perforated i system.	observa- ination of so critical ation and eir micro-	10, 11
Moshi.		
H. W. Hamlin, B.A. (For.): co-ordination of exploitati keting, grading and timber control; and investigation	ns therein.	11
J. F. Hughes, B.Sc., B.A. (For.), <i>Utilization Officer</i> : stu spective uses and markets for forest products; also of for improving locally the conversion, seasoning, preserve handling of timber.	measures	11
CHEMICAL DEPARTMENT		
(Responsible for the chemical work of the Agricultur inary and other departments).		
W. D. Raymond, O.B.E., B.Sc. (Hons.), Ph.D. (Lond.), Government Chemist. (Tel.: Dar-es-Salaam 655).	F.R.I.C.,	1, 24
G.H. Payne, M.Sc., A.W.A.S.M., A.A.C.I., Chemist.		2, 24
R. P. St. J. Watkin, B.Sc., A.R.I.C., Chemist.	*	5, 24

Subject

UGANDA	
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Entebbe. Administrative	
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T. R. Hayes, M.Sc. (Manchester), A.I.C.T.A., Assistant Director of Agriculture.	1
R. K. Kerkham, B.A. (Cantab.), Dip.Agr. (Cantab.), A.I.C.T.A., In Charge of Kawanda Station: animal husbandry.	1
E. Williams, B.Sc. (Aberdeen), A.I.C.T.A., In Charge of Serere Station.	1
Research	
ENTOMOLOGY W. V. Harris, M.Sc. (Durham), A.I.C.T.A., F.R.E.S., F.Z.S., Senior Entomologist: general advisory work; termites. (Stationed at Kawanda.)	19
A. P. G. Michelmore, B.A. (Cantab.), F.R.E.S., Senior Entomologist: insect pests of coffee. (Stationed at Kawanda.)	19
BOTANY NA (O) A LCTA C : Busin Blanc	2.4
J. D. Jameson, M.A. (Oxon.), A.I.C.T.A., Senior Botanist, Plant Breeder: cotton. (Stationed at Kawanda).	3, 4
D. G. Thomas, B.Sc. (University College, Wales), Dip.Agr. (Cantab), <i>Botanist</i> . (Stationed at Kawanda).	3, 20
CHEMISTRY. G. Griffith, B.Sc., Ph.D., A.R.I.C., A.I.C.T.A., Senior Chemist. (Stationed at Kawanda).	24
VETERINARY DEPARTMENT	
Kampala.	
Administrative	1
H. Cronly, M.R.V.C.S., D.T.V.M. (Edin.), D.V.S.M., Director of Veterinary Services.	1
J. B. Randall, M.A. (Cantab.), M.R.C.V.S., Deputy Director of Veterinary Services.	17
Research	4.0
S. G. Wilson, M.R.C.V.S., B.Sc. (Belf.), Ph.D. (Edin.), B.Sc. (Edin.) D.T.V.M. (Part 1), Chief Veterinary Research Officer.	16
Senior Veterinary Officers	17
H. G. Stewart, M.R.C.V.S., D.T.V.M. (Edin.). C. P. Downes, M.R.C.V.S., D.V.S.M., D.T.V.M.	17
J. E. R. Roe, M.R.C.V.S.	17
R. N. Sanders, B.V.Sc. (Sydney).	17

COLONIAL TERRITORIES Subject Veterinary Officers 17 I. MacDonald, M.R.C.V.S. 17 A. Taylor, M.R.C.V.S. 17 L. S. Pfob, M.R.V.C.S. DEPARTMENT OF FORESTRY Entebbe. **Administrative** 1 W. J. Eggeling, B.Sc. (For.), Ph.D., Conservator of Forests. Research 11 C. H. Tack, Forest Engineer. 10 H. C. Dawkins, B.A., Forest Ecologist. ZANZIBAR DEPARTMENT OF AGRICULTURE Zanzibar. O. S. Swainson, B.A. (Cantab.), Director: general policy. 1 A. K. Briant, M.A. (Cantab.), Dip.Agr. (Cantab.), A.I.C.T.A., 1 Senior Agricultural Officer, Assistant to the Director. Agricultural Officers: G. E. Tidbury, B.Sc. (Lond.), A.R.C.S. G. W. Anderson, B.Sc. (Agr.), A.I.C.T.A. General 7, 8, 14, 17 D. W. Winter, B.Sc. (St. Andrews), A.I.C.T.A. investigations; Agricultural Development Officers: coconuts, cloves, G. D. Wilkinson, B.Sc. (Lond.), N.D.A. foodcrops and R. G. Brett, Dip. Agr. (Harper Adams). livestock. Attached to the Department of Agriculture: A. L. Griffith, M.A., D.Sc., O.B.E., Forest Officer: investigations 11 and policy. W. E. Calton, B.A., A.R.I.C., Dip.Agr., Government Chemist: soil 2 and general investigations. J. C. Alley, M.R.C.V.S. (Dublin), Veterinary and Livestock Officer: 16 disease control. CENTRAL AFRICA NORTHERN RHODESIA DEPARTMENT OF AGRICULTURE Mazabuka.

1, 6, 9

1

1. 7

E. F. Martin, Dip.Agr. (H.A.A.C.), Director of Agriculture.
J. C. Eyre, B.Sc. (Agr.), D.I.C., Deputy Director of Agriculture.

R. H. Fraser, B.Sc., A.I.C.T.A., Senior Agricultural Officer.

U. J. Moffat, O.B.E., B.Sc., N.D.D., Senior Agricultural Officer.

J. N. Clothier, Dip.Agr. (Wye), A.I.C.T.A., Senior Agricultural Officer.	Subject 1
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VETERINARY DEPARTMENT	
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G. F. Elliott, M.R.C.V.S., Acting Deputy Director Veterinary Ser-	17
vices. J. W. Macaulay, B.Sc. (Lond.), M.R.C.V.S., D.V.S.M., Senior	17
Veterinary Research Officer. J. McArthur, M.R.C.V.S. J. F. C. Swan, D.V.S.M., M.R.C.V.S. G. D. Shaw, B.Sc., M.R.V.C.S. P. J. Sheehy, M.R.C.V.S. S. L. Trevor, M.R.C.V.S. J. C. Rix, M.R.C.V.S. E. W. Ascott, B.Sc. (Lond.), M.R.C.V.S. Mrs. E. Hobday, M.R.C.V.S. S. A. Child, N.D.D., N.D.A., Dip.Agr.	17 17 15 18 17 17 17 17
FOREST DEPARTMENT	
Ndola. C. E. Duff, M.A. (Oxon.), Acting Conservator of Forests. H. A. Rea, B.Sc., Assistant Conservator of Forests. D. Robertson, B.Sc., Assistant Conservator of Forests. H. S. H. Watson, Assistant Conservator of Forests.	1, 10 10 10 10
NYASALAND	
DEPARTMENT OF AGRICULTURE	
C. B. Garnett, M.A. (Cantab.), Director of Agriculture. M. H. Breese, B.Sc. (Wales), D.I.C., F.R.E.S., Entomologist: general entomological problems, especially with reference to	1 19
tobacco, tea, tung, cotton and food crops and stored products. V. R. Greenstreet, F.R.I.C., D.I.C., Chemist: general agricultural problems with special reference to soils, feeding stuffs, fertilizers, crops, etc.	24

COLUMNI TERRITORIES	
C. V. Cutting, Analytical Chemist: special problems connected	Subject 24
with tung. P. O. Wiehe, M.Sc., A.R.C.S., F.L.S., <i>Plant Pathologist</i> : general plant pathological problems, especially with reference to to-	6
bacco, tung and food crops. S. T. Hoyle, B.A. (Cantab.), A.I.C.T.A., Chief Agricultural Research Officer: general agricultural problems, especially with tobacco and native food crops. E. Lawrence, O.B.E., Dip.Agr. (Wye), N.D.A. R. W. Kettlewell, B.Sc. (Reading), Dip.Agr. (Cantab.), A.I.C.T.A. C. C. Webster, Ph.D., B.Sc., A.I.C.T.A. A. P. S. Forbes, B.Sc., Dip.Agr. Sc. (Cantab.), A.I.C.T.A.	7
H. W. T. Webb, B.Sc. (McGill), A.I.C.T.A. M. F. H. Selby, B.A., Dip.Agr. (Cantab.), A.I.C.T.A. A. B. Cormack. W. V. Rose, B.A. (Cantab.). D. H. Laycock, B.Sc. (Leeds), A.I.C.T.A. G. Paton, B.Sc., A.I.C.T.A. A. B. Briars, B.Sc. (Leeds), N.D.A. W. J. Badcock, Agr. Dip. (Reading), N.D.A.	12
A.I.C.T.A. E. I. H. Sturgeon, B.Sc. G. F. Godden, B.Sc. Soil conservation	2
VETERINARY DEPARTMENT	
Blantyre. D. F. Macpherson, M.R.C.V.S., Director of Veterinary Services. W. J. Gray, M.R.C.V.S., F.R.E.S., Senior Veterinary Officer. G. Q. Fowler, M.R.C.V.S., Veterinary Officer. E. G. Barnes, M.R.C.V.S., Veterinary Officer. A. S. Watson, M.R.C.V.S., Veterinary Officer.	1 17, 18 17, 18 17, 18 17, 18
FORESTRY DEPARTMENT	
Limbe. R. G. M. Willan, B.Sc. (Edin.), Assistant Conservator of Forests. W. E. Lewis, B.Sc. (Bangor), Assistant Conservator of Forests. B. R. Fuller, B.Sc. (Lond.), Assistant Conservator of Forests.	10, 11 10, 11 10, 11
EASTERN	
ADEN	
B. J. Hartley, O.B.E., N.D.A., A.I.C.T.A., Director of Agriculture.	1
BRUNEI	
J. Grant, State Forest Officer. Hamidoon bin Awang Damit, Agricultural Officer.	1, 10, 11

COLORIAL TERRI	TURIES
HONG KONG Urban Council	Subject
R. H. Robertson, O.B.E., M.R.C.V.S., Part-time Senior Veterinary Officer.	1
H. C. Watson, M.R.C.V.S., Part-time Veterinary Officer.	1
Development R. Hart, Development Officer: marketing.	27
Agricultural Department T. G. Strangeways, M.A. (Cantab.), Senior Agricultural Officer, G.P.O. Building, 1st fl., Hong Kong.	1
N. F. Wright, M.B.E., Animal Husbandry Officer, G.P.O. Building, 1st. fl., Hong Kong.	18
Forestry Department I. P. Tamworth, M.C., B.A., Forestry Officer.	10, 11
MAURITIUS	
DEPARTMENT OF AGRICULTURE Reduit.	
W. Allan, O.B.E., B.Sc. (Glasgow), A.I.T.C.A. (Trinidad), Director of Agriculture: land usage problems.	1
N. Craig, M.Sc. (Durham), Deputy Director of Agriculture: soils and manures in relation to sugarcane cultivation.	1, 2
Sugarcane Research Station A. de Sornay, B.Sc., I.A.C. (Paris), Plant Breeder: sugarcane breeding work. Vacant. Assistant Plant Breeder. Vacant. Chemist.	4
S. M. Feillafé, Dip.Agr. (Maur.), Assistant Chemist. H. Evans, Ph.D. (Wales).—On secondment to Trinidad— Botanist: physiology of sugarcane and investigation on weed control.	5 3, 5
E. Rochecouste, B.Sc., Dip.Agr. (Maur.), Assistant Botanist.	3, 5
Sugar Technological Division S. Staub, A.R.T.C., A.M.I.Mech.E., F.C.S., Sugar Technologist. R. Leclézio, Assistant Sugar Technologist.	28 28
G. Orian, A.C.R. (Maur.), Plant Pathologist: problems relating to the diseases of sugarcane, tobacco and other crops, and of plants in general. Vacant. Assistant Plant Pathologist.	6

Tobacco Division

Vacant. Government Tobacco Officer: selection and general experimental work with tobacco and marketing organization.

COLONIAL TERRITORIES	
	Subject
Agricultural College Division J. R. Lagesse, B.Sc., Registrar and Statistician: statistical enquiries in connection with sugarcane and other crops.	29
Agricultural Division G. A. North-Coombes, B.Sc. (Reading), Senior Agricultural Officer. A. d'Emmerez de Charmoy, Dip.Agr. (Maur.), Agricultural Officer. E. Lesur, Agricultural Officer.	1, 3, 7 3, 7 7
Entomological Division	
J. R. Williams, B.Sc. (Bristol) Entomologist. A. Moutia, Dip.Agr. (Maur.), F.R.E.S., Assistant Entomologist. Sugarcane and other pests.	19
Agricultural Chemistry Division	
R. Lincoln, M.A. (Cantab.), Chemist. F. Berchon, Dip.Agr. (Maur.), Assistant Chemist. general agricultural chemical investigations.	2
Tea Division	
F. O. Sprinks, Tea Officer.	1
Veterinary Research Station A Darné, M.R.C.V.S. (Lond.), Veterinary Surgeon, Senior Veterinary Officer.	13, 16, 21,
J. G. S. Bennie, Dip.Agr. (Grootfontein, South Africa), Animal	8, 14, 15,
Husbandry Officer.	17, 18
F. E. Lionnet, Docteur Veterinaire (Paris), Veterinary Officer (On leave).	17, 18
Y. Lefebure, Assistant Veterinary Officer: investigation in connection with diseases of stock and pasturage problems.	17, 18
SEYCHELLES	
DEPARTMENT OF AGRICULTURE	
TAY AFT	1, 7, 10, 18
of Agriculture. general problems	
F. Durocher Yvon, Dip.Agr. (Maur.), relating to the agricultural Officer.	7, 10, 18
G. Lionnet, Dip.Agr. (Maur.), Scientific Assistant.	2, 24

SOUTH-EAST ASIA FEDERATION OF MALAYA DEPARTMENT OF AGRICULTURE

Kuala Lumpur.

Administration

Vacant. Director of Agriculture, Administrative Officer and Director of Research.

A. E. S. McIntosh, B.Sc. (Hons.), Ph.D., Deputy Director of Agriculture.

Research Branch	Subject
R. G. H. Wilshaw, M.A. (Oxon.), B.Sc., A.I.C.T.A., Chief Research Officer: in charge of research.	1, 2
Vacant. Senior Agricultural Officer (Research): in charge of division. C. W. S. Hartley, B.A., Dip.Agr.Sci. (Camb.) D. G. Jones, B.A., Dip.Agr.Sci. (Camb.), A.I.C.T.A. G. S. Keeping, B.Sc. (Agr.). H. D. Matheson, B.Sc., D.T.A. (Trin.) general investigations on field crops and breed-7, ing of livestock.	8, 12, 18
DIVISION OF CHEMISTRY T. A. Buckley, M.Sc., Ph.D., F.R.I.C. Senior Chemist. Gunn Lay Teik, M.A., Chemist. general agricultural chemical research.	24 24
DIVISION OF SOILS AND PLANT PHYSIOLOGY. S. G. Willimott, B.Sc., Ph.D. (Cantab.), Ph.D. (Liv.), A.I.C., Senior Chemist: soils. J. K. Coulter, B.Sc., B.Agr., Dip.Agr.Sci. (Camb.), Chemist: soils. Haji Abdul Wahid bin Haji Jafar: soil problems and general	2 2 2
plant nutrition. DIVISION OF ENTOMOLOGY. H. T. Pagden, M.A., F.R.E.S., Senior Entomologist R. J. A. W. Lever, B.Sc. (Dunelm), D.I.C. (Lond.), on insect pests A.I.C.T.A., F.L.S., F.R.S.T.M., Entomologist. and insecticides.	19 19 19
DIVISION OF PLANT PATHOLOGY. A. Thompson, B.Sc., Senior Plant Pathologist. A. Johnston, B.Sc., A.I.C.T.A., A.L.S., Plant Pathologist. pathology.	20, 22 20, 22
DIVISION OF BOTANY. R. B. Jagoe, B.Sc., Senior Botanist. L. N. H. Larter, B.Sc., A.R.C.S. (Lond.), A.I.C.T.A., Botanist. E. A. Rosenquist, Dip.Agr.Sci. (Camb.), Botanist. Vacant. Botanist.	3, 4
Canning Research Vacant.	
Field Branch Vacant. Chief Field Officer: in charge of Branch.	
Senior Agricultural Officers J. Fairweather, M.B.E., N.D.A., U.D.A. P. G. Heath, B.Sc. (Agr.), A.I.C.T.A.	1

	Subject
J. L. Greig, B.Sc., B.Sc. (Agr.). H. H. Tunku Yaacob bin Sultan Abdul Hamid, B.A. (Camb.).	1
J. R. P. Soper, B.A.	1
J. R. Curry, Dip.Agr. (Dunelm), N.D.A.	1
Agricultural Officers	
H. J. Simpson, B.Sc. (Agr.), Dip.Agr. (Wye).	1
J. Cook, B.Sc., A.I.C.T.A. H. K. Ashby, B.A., Dip.Agr.Sci. (Camb.)	1
E. J. H. Berwick, B.A., Dip.Agr.Sci. (Camb), A.I.C.T.A.	1
E. F. Allen, B.A., Dip.Agr.Sci. (Camb.), A.I.C.T.A. W. N. Scott, B.Sc., B.Agr., Ph.D., Dip.Imp.Col.	1
H. M. James, M.C., Dip.Agr., I.C.T.A.	1
P. G. Coleman, B.A. (Agr.). A. L. Barcroft, B.Sc.	1
R. Henderson, B.Sc. (Agr.).	1
Economics and Publications Branch	
Vacant. Agricultural Economist.	
J. J. Holmes, Assistant to the Agri- economic investigations; stat- cultural Economist. istics and publications.	27, 29
J' Istics and publications.	
College of Agriculture, Serdang Vacant. Principal.	
O. M. Lee, A.I.Mech.E., A.I.M.A., agricultural education and	1
F.L.S., Senior Lecturer. poultry investigations.	
Vacant, Senior Lecturer.	
THE RUBBER RESEARCH INSTITUTE OF MALAYA	
Kuala Lumpur.	
Administration.	
C. E. T. Mann, M.Sc. (Lond.), F.I.R.I., Director.	1
Vacant, Deputy Director.	
STATISTICS SECTION	
H. Fairfield Smith, B.Sc. (Agr.) (Edin.), M.S.A. (Cornell), F.S.S., Statistician.	29
Fong Chu Chai, R.C.D. (S'pore)., Assistant Statistician.	29
SMALL-HOLDERS' ADVISORY SERVICE	
L. R. Davidson, B.Sc. (Agr.) (Edin.), Small-Holders' Advisory	1
Officer.	
J. M. F. Greenwood, B.Sc. (Agr.) (Lond.), Assistant Small-Holders' Advisory Officer.	1
Botanical Division	
C. C. T. Sharp, Head of Division: breeding and selection of Herea	3, 4
brasiliensis; vegetative propagation and study of clones of	, .
Hevea; tapping and field experiments; general advisory work.	

	Subject
E. D. C. Baptist, Ph.D. (Lond.), M.Sc., A.R.C.S., D.I.C., Botanist: nutritional problems; mineral deficiencies; stock and scion relationships in Hevea.	2, 3
E. G. B. Gooding, M.A. (Cantab.), <i>Botanist</i> : extension work; tapping experiments; latex physiology.	3
H. M. Burkill, M.A. (Cantab.), <i>Botanist</i> : general botany; supervision of field experiments.	3
C. W. Brookson, B.Sc. (Lond.), Botanist: breeding and selection of Hevea brasiliensis.	4
K. N. Kaimal, B.A. (Madras), Assistant Botanist: tapping experiments; morphology and anatomy; ecology.	3
T. V. Vaidyanathan, B.Agr. (Bombay), Assistant Botanist: breeding and selection of Hevea.	4
HEMICAL DIVISION.	
M. W. Philpott, M.Sc. (Lond.), A.R.I.C., F.I.R.I., Head of Division. G. W. Drake, B.Sc., M.A. (Oxon.), Physical Chemist: analysis of	. 5, 24 24
non-rubber constitutents of latex, physico-chemical properties of latex.	
A. Walker, B.Sc. (Lond.), A.R.I.C., <i>Chemical Engineer</i> : engineering aspects of manufacture of raw rubber and concentrated latex; development of new equipment and processes.	24, 28
A. S. Cook, B.Sc. (Glasgow), Organic Chemist: general chemical and technological study of rubber preparation.	24
H. C. Baker, M.Sc. (Lond.), A.R.I.C., F.I.R.I., Chemist: Seconded from London Advisory Committee for Rubber Research (Ceylon and Malaya): technological evaluation of raw rubber.	24
G. F. Bloomfield, Ph.D. (Lond.), D.I.C., F.R.I.C., Chemist: Seconded from British Rubber Producers' Research Association:	24
chemical study of rubber hydrocarbon. A. I. McMullen, Ph.D. (Cantab.), Chemist: Seconded from British Rubber Producers' Research Association: colloid properties of	24, 25
latex. K. C. Sekar, B.A. (Madras), A.I.R.I., Assistant Chemist: analysis of estate chemical and water supplies; preservation and con-	24
centration of latex. Cheah Sein Liat, B.Sc. (Bombay), Assistant Chemist: analysis of latex; study of latex enzymes.	25
ATHOLOGICAL DIVISION	- 10 00
R. A. Altson, B.Sc. (Lond.), A.R.C.S., <i>Head of Division</i> : problems relating to diseases and pests of rubber trees; general advisory work.	6, 19, 20,
A. Newsam, Ph.D. (Lond.), Entomologist: pest control on Heavea plantations; termites, mites and thrips.	6, 19
F. W. Hutchison, N.D.A., C.D.A. (Edin.), Field Research Officer: planning and supervision of field experiments.	6
R. N. Hilton, B.A. (Cantab.), Pathologist: investigations on leaf diseases of rubber with special references to Helminthosporium heveae.	6, 20, 22
K P. John, B.A. (Madras), Assistant Pathologist and General Re-	6, 20

search Assistant.

Soils Division	Subject
C. G. Akhurst, B.Sc. (Lond.), A.R.C.S., A.I.C.T.A., Head of Division: general problems concerning the nutrition of rubber trees; field experiments on the effects of cover plants and fertilisers on the growth of rubber trees; soil survey and soil profile studies; soil nitrogen; mechanical cultivation methods; weed control experiments.	2
G. Owen, M.Sc. (Wales), Soils Chemist: soil survey work; studies of soil phosphates; leguminous covers; nitrogen fixation and inoculation; soil fertility and plant and food requirements of rubber trees; rubber leaf analysis; field and pot experiments.	2
W. H. Williams, M.A., B.Sc. (Aberdeen), D.I.C. (Lond.), Soils Chemist: soil survey; field and laboratory studies on Malayan soils; field procedure with mechanised methods of cultivation; anti-soil erosion measures; weed control; general advisory work in connection with planting, cultivation, and manuring of rubber and associated crops.	2
VETERINARY DEPARTMENT	,
W. R. Wallace, D.T.V.M. (Edin.), M.R.C.V.S., Director of Veterin-	1
ary Services. W. E. Lancaster, M.A. (Cantab.), D.T.V.M. (Edin.), M.R.C.V.S., Deputy Director of Veterinary Services.	1
 H. H. Tungku Abu Bakar of Johore, M.R.C.V.S., Chief Animal 14, Husbandry Officer. R. S. T. Bowden, M.R.C.V.S., Senior Research Officer. 16, 18, 19, 21, 	17, 18
VETERINARY OFFICERS	
R. A. Wright, M.R.C.V.S. 14, 15, 16,	17, 18
C. C. Renwick, M.R.C.V.S. 14, 15, 16,	
J. Davie, B.Sc. (Edin.), M.R.C.V.S. 14, 15, 16,	17, 18
A. H. Foster, M.R.C.V.S. 14, 15, 16,	
M. D. Johari, M.R.C.V.S.	17, 18
Posts Vacant. Veterinary Officers. Posts Vacant. Research Officers.	
rosts vacant. Research Officers.	
VETERINARY DEPARTMENT, SINGAPORE	
C. W. Wells, B.Sc. (Lond.), D.T.V.M. (Edin.), M.R.C.V.S., Chief Veterinary Officer, Singapore.	1
FOREST RESEARCH INSTITUTE AND TIMBER RESEARCH	Н
LABORATORY	
Kepong.	
R. C. Barnard, M.A. (Cantab.): silviculture.	21
J. Wyatt-Smith, B.A. (Oxon.): forest botany. Vacant: wood technology.	2
F. G. Browne, B.Sc. (Edin.): entomology.	
A. V. Thomas, B.Sc., Timber Research Officer.	8
	22

Subject

SINGAPORE	Subject
GARDENS DEPARTMENT	
Singapore. Vacant. Director.	
M. R. Henderson, F.L.S., Assistant Director, Acting Director.	3, 4, 9
systematic botany of Malayan plants.	J, T, J
J. Sinclair, B.Sc., Curator of the Herbarium: systematic botany of Malayan plants.	3, 9
C. X. Furtado, D.Sc., Assistant Botanist: Malayan palms and	3, 4, 9
J. W. Ewart, Agricultural Officer, Singapore.	4.0
	4, 9
NORTH BORNEO	
H. G. Keith, B.Sc. (For.), Conservator of Forests.	10
G. S. Brown, B.Sc. (For.) (Edin.), Assistant Conservator of Forests.	10
F. V. Webster, M.C. (Dehra Dun), Assistant Conservator of Forests.	10
J. Agama, Assistant Conservator of Forests.	3
J. W. Jolly, H.D.A., Director of Agriculture.	1
J. K. Cox, R.D.A., R.D.D. (S.A.), Senior Agricultural Officer. J. Gordon, B.Sc. (Agr.) (Belfast), Agricultural Officer.	1
N. B. Flockhart, B.Sc. (Agr.), Agricultural Officer.	1 1
S. R. Rippon, M.R.C.V.S., Veterinary Officer.	1
Chan Kwai Shang, B.Sc. (Agr.), Assistant Entomologist.	19
J. T. Medrana, D.B.M., Assistant Veterinary Officer.	18
SARAWAK	
DEPARTMENT OF AGRICULTURE	
R. W. R. Miller, B.A., Dip.Agr.Sci. (Cantab.), Director of Agricul-	1
ture.	1
O. F. Wright, B.Sc. (Horticulture) (Reading), Agricultural Officer.	12, 18
J. S. Blacklock, Dip. Agr., Dip. Dair. (Glasgow), A.I.C.T.A. (Trini-	12, 18
dad), Agricultural Officer.	10 10
K. E. H. Kay, Agricultural Officer.	12, 18
DEPARTMENT OF FORESTRY	
B. J. C. Spurway, M.B.E., B.A., Dip.For. (Oxon.), Conservator of Forests.	1
J. H. Nelson Smith, B.A. (For.) (Oxon.), Assistant Conservator of	10, 11
Forests.	20, 22
B. E. Smythies, B.A. (For.) (Oxon), Assistant Conservator of Forests.	10, 11
J. Grant, B.Sc. (For.) (Edin.), Assistant Conservator of Forests,	10, 11
State Forests Officer, Brunei (On Secondment).	40.44
D. Carroll, Assistant Forest Officer.	10, 11
F. J. Wright, Assistant Forest Officer.	10, 11
L. P. Zehnder, Dip. For. (Rangoon), Assistant Forest Officer.	10, 11 10, 11
H. Crocker, Senior Forest Ranger.	10, 11

1, 7, 18

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general problems

relating to the

agriculture of tropical crops

WEST INDIES

DEVELOPMENT AND WELFARE ORGANISATION

Barbados, B.W.I.

- A. de K. Frampton, Dip.Agr. (Seale Hayne), Agricultural Adviser.
- P. E. Turner, O.B.E., M.Sc. (Lond.), F.R.I.C., Sugar Agronomist, on staff of Agricultural Adviser.
- J. V. Lochrie, O.B.E., B.Sc., N.D.A., A.I.C.T.A., Cotton Specialist, on staff of Agricultural Adviser.

IMPERIAL COLLEGE OF TROPICAL AGRICULTURE

Trinidad.

- H. J. Page, O.B.E., B.Sc., F.R.I.C., Principal.
- C. W. Lynn, M.B.E., A.I.C.T.A., Dip.Agr., Lecturer in Agricultural Advisory and Extension Methods.
- Humphrey Webb, N.D.A., C.D.A., *Lecturer in Animal Husbandry*: general animal husbandry problems in the tropics.
- L. J. C. Evans, Dip.Agr., A.I.C.T.A., Lecturer in Agriculture.
- J. E. Mayne, B.Sc. (Agr.), Lecturer in Agriculculture: crop husbandry in the tropics with special reference to mechanisation.
- R. E. D. Baker, M.A., A.I.C.T.A., *Professor of Botany*: general botanical and plant pathological problems in relation to tropical crops.
- Jacob Wilson, B.Sc., *Lecturer in Botany*: general botanical problems in relation to tropical crops.
- F. Hardy, M.A., Dip.Agr., Professor of Chemistry and Soil Science.
- istry and Soil Science.

 Howard Lees, Ph.D., B.Sc., A.R.I.C., Lecturer in Chemistry: soil science with special reference to biochemistry of tropical soils.

 G. Rodrigues, F.I.C., Lecturer in Chemistry.

 general agricultural chemistry; problems in relation to tropical soils.
- C. Y. Shephard, Ph.D., B.Sc. (Econ.), Carnegie Professor of Economics: economics of tropical crop production, especially in relation to cacao, sugar, etc.
- A. L. Jolly, Ph.D., N.A., M.Sc., Lecturer in Economics.
- T. W. Kirkpatrick, M.A., Dip.Agr.,
 F.R.E.S., Professor of Entomology.

 To tropical crops

 To the control of investor and control of investor and control of investor.
- E. McC. Callan, B.Sc., A.R.C.S., and control of insects D.I.C., Lecturer in Entomology.
- W. T. Dale, B.Sc., Lecturer in Mycology and Bacteriology: plant pathological problems in relation to tropical crops.
- R. D. E. Yearwood, D.I.C.T.A., A.I.C.T.A., Acting Sugar Technologist.
- Vacant, Assistant Acting Sugar Technologist.

Research Schemes	Subject
Banana Research Scheme	
Norman Willison Simmonds, B.A., Cytogeneticist.	4
Cocoa Research Scheme	
Harry Evans, Ph.D., Senior Plant Physiologist.	3
Francis William Cope, A.R.C.S., M.Sc., Plant Breeder.	4
John Wardman Porteous, Ph.D., B.Sc., Soil Chemist. Fred Haworth, Ph.D., B.Sc., A.R.I.C., Biochemist.	2, 25
George Edward Laurie Spencer, D.I.C.T.A., Field Officer.	5, 25
	12
Soils Research Scheme	
Kenneth Clapham Vernon, B.Sc., Soil Surveyor.	2
Francis Clift Darcel, B.Sc. (Agr.)., Soil Surveyor.	2
Sugar Research Scheme	
Leslie Frederick Wiggins, D.Sc., Ph.D., A.T.I.C., Director of Research,	5, 24
James Howarth Williams, B.Sc., A.R.C.S., Senior Organic Chemist.	24
Mary Jean Nicholls, Ph.D., Junior Organic Chemist.	24
Oliver Edmund Pratt, B.Sc., Junior Organic Chemist.	24
Alexander Blue, B.Sc., Chemical Engineer.	24, 28
BARBADOS	
DEPARTMENT OF SCIENCE AND AGRICULTURE	
Bridgetown.	
S. J. Saint, C.M.G., O.B.E., M.Sc., Ph.D., F.R.I.C. (Lond.), Director of Agriculture.	. 1
M. Halcrow, O.B.E., B.Sc., Dip.Agr., A.I.C.T.A., Deputy Director of Agriculture.	1
R. W. E. Tucker, M.A. (Cantab.), B.Ed. (Capetown), Entomologist:	19
insect pests of sugarcane and other crops; general economic zoology.	
D. M. Hanschell, B.Sc., A.I.C.T.A., Botanist.	3, 8, 20
T TO THE TOTAL TO THE	16, 21
L. R. Hubon, B.V.Sc., D.V.Sc.,	
J. B. D. Robinson, B.Sc., Chemist.	2, 15
J. B. D. Robinson, B.Sc., Chemist.	2, 15
J. B. D. Robinson, B.Sc., Chemist. C. A. Coppin, B.A.Sc. (Toronto), A.R.I.C., Government Analyst. BRITISH WEST INDIES CENTRAL SUGARCANE BREED STATION	2, 15
J. B. D. Robinson, B.Sc., Chemist. C. A. Coppin, B.A.Sc. (Toronto), A.R.I.C., Government Analyst. BRITISH WEST INDIES CENTRAL SUGARCANE BREED STATION G. C. Stevenson, B.A., A.I.C.T.A., Cyto-Geneticist: cytology,	2, 15
J. B. D. Robinson, B.Sc., Chemist. C. A. Coppin, B.A.Sc. (Toronto), A.R.I.C., Government Analyst. BRITISH WEST INDIES CENTRAL SUGARCANE BREED STATION G. C. Stevenson, B.A., A.I.C.T.A., Cyto-Geneticist: cytology, genetics. B. de L. Inniss, B.Sc., A.I.C.T.A., Botanist: sugarcane breeding	2, 15 DING
J. B. D. Robinson, B.Sc., Chemist. C. A. Coppin, B.A.Sc. (Toronto), A.R.I.C., Government Analyst. BRITISH WEST INDIES CENTRAL SUGARCANE BREED STATION G. C. Stevenson, B.A., A.I.C.T.A., Cyto-Geneticist: cytology, genetics. B. de L. Inniss, B.Sc., A.I.C.T.A., Botanist: sugarcane breeding work and plant pathology.	2, 15 DING 4 4, 6
J. B. D. Robinson, B.Sc., Chemist. C. A. Coppin, B.A.Sc. (Toronto), A.R.I.C., Government Analyst. BRITISH WEST INDIES CENTRAL SUGARCANE BREED STATION G. C. Stevenson, B.A., A.I.C.T.A., Cyto-Geneticist: cytology, genetics. B. de L. Inniss, B.Sc., A.I.C.T.A., Botanist: sugarcane breeding	2, 15 DING

	Subject
COLONIAL DEVELOPMENT AND WELFARE SCHE	
A. G. Mill, Livestock Officer.	14, 17
A. D. Herbert, D.I.C.T.A., Assistant Livestock Officer (Seconded.)) 14, 17
BERMUDA	
DEPARTMENT OF AGRICULTURE	
AGRICULTURAL STATION, Paget East.	
W. R. Evans, Director of Agriculture.	1
G. R. Groves, Assistant Director of Agriculture.	9
E. C. G. Bedford, B.Sc., M.Sc., Plant Pathologist. E. R. Earl, B.V.Sc., Government Veterinary Officer.	19 13, 14, 15
E. R. Ball, B. V.Sc., Government Veterinary Officer.	13, 14, 13
BRITISH GUIANA	
DEPARTMENT OF AGRICULTURE	
H. H. Croucher, B.Sc., A.R.I.C., Director of Agriculture.	ĭ
L. D. Cleare, F.R.E.S., Deputy Director of Agriculture.	1, 19
H. Paul, B.Sc., A.R.I.C., Agricultural Chemist.	2, 5, 24
V. O. Ferrer, M.Sc., D.I.C.T.A., Agricultural Economist. G. B. Kennard, A.I.C.T.A., Marketing Officer.	27, 29
E. I. Hugh, M.Sc., D.I.C.T.A., Livestock Officer: cattle breeding	1, 27 8 14 15
with special emphasis on Holstein-Zebu, animal nutrition.	17
W. Uruski, M.R.C.V.S., Veterinary Officer: disease investigation,	13, 14, 16,
and control, animal breeding.	17
St. G. C. Cooper, A.I.C.T.A. At experimental stations special- L. H. Lord, M.Sc., D.I.C.T.A. ising on crops and varieties most	1
O. F. Churaman, D.I.C.T.A. suited to local conditions.	1
FOREST DEPARTMENT	
C. Swabey, B.Sc., Conservator of Forests.	1
D. B. Fanshawe, B.A., Senior Assistant Conservator of Forests:	10
botany; ecology; silviculture. M. E. R. Taylor, Assistant Conservator of Forests: forest manage-	1.0
ment.	10
N. G. Lechmere-Guppy, B.A., Assistant Conservator of Forests:	10
botany; ecology; silviculture.	
BRITISH HONDURAS	
DEPARTMENT OF AGRICULTURE	
C. W. L. Fishlock, B.Sc. (Agr.), A.I.C.T.A., Director of Agriculture.	1
G. A. Southwell, D.I.C.T.A., Assistant Agricultural Officer	12
M. P. Benjamin, D.I.C.T.A., Assistant Agricultural Officer.	12
D. D. Haynes, F.R.H.S., F.R.S.A., Agricultural Instructor. S. A. W. Boyd, D.I.C.T.A., Junior Agricultural Instructor.	12
P. G. Everett, V.S. (Toronto), Veterinary Officer.	12
	10

FOREST DEPARTMENT	Subject
A. F. A. Lamb, B.Sc. (For.) (Edin.), Conservator of Forests. D. W. D'Silva, M.C., Dip. (For.) (Dehra Dun), Assistant Conser-	10, 11
vator of Forests. S. L. Finding, B.Sc. (For.) (Wales), Assistant Conservator of Forests.	10, 11
JAMAICA	
DEPARTMENT OF AGRICULTURE Kingston.	
A. E. Trotman, N.D.A., C.D.A., A.I.C.T.A., Dip. Rural Economy (Oxon.), Director of Agriculture.	1
J. Wright, B.Sc. (Hons.), A.I.C.T.A., Deputy Director of Agriculture. (Research).	1
Vacant. Deputy Director of Agriculture (Extension Services). Vacant. Deputy Director of Agriculture (Veterinary Services).	
STATION AND FIELD RESEARCH.	
J. B. Sutherland, Senior Agricultural Officer.	1
E. J. Gregory, Dip.Agr. (Wye), A.I.C.T.A., Senior Agricultural Officer.	1
C. D. F. Hutchings, B.S.A., Senior Agricultural Officer.	1
E. A. Tai, M.Sc., D.I.C.T.A., Senior Agricultural Officer. Vacant. Senior Agricultural Officer.	1
Vacant. Soil Conservation Officer.	
A. M. Pratt, Coffee Officer. W. K. Mitchell, D.I.C.T.A., Agricultural Officer, Grade I.	1
B. F. Topper, M.A., Agricultural Officer, Grade I.	1
W. G. Stuart, D.I.C.T.A., Agricultural Officer, Grade I.	1
L. A. Powell, Agricultural Officer, Grade I. D. A. R. Campbell, B.Sc., Agricultural Officer, Grade II.	1 1
J. H. Haughton, D.I.C.T.A., A.I.C.T.A., Agricultural Officer,	1
Grade II.	1
R. E. Osborne, D.I.C.T.A., Agricultural Officer, Grade II. M. St. C. Motta, D.I.C.T.A., Junior Agricultural Officer, Grade I.	1 8
A. G. Naylor, D.I.C.T.A., Junior Agricultural Officer, Grade I.	6
ABORATORIES AND FIELD RESEARCH	
E. B. Martyn, B.A., D.I.C.T.A., Plant Pathologist.	6, 22
H. P. Hansen, Dr. Agro., M.A., B.A., Plant Pathologist (Coconuts). Vacant. Plant Pathologist (Bananas).	0, 44
W. H. Edwards, F.R.E.S., D.I.C., Dip.Agr., Entomologist.	19
T. O. Ellis, B.Sc., A.R.I.C., Senior Agricultural Chemist.	2 4
P. A. Chan Choong, B.Sc. (Hons.), A.I.C.T.A., Senior Botanist. W. D. Burrowes, B.A., Agricultural Statistician.	27, 29
R. K. Richardson, B.Sc., Agricultural Chemist.	2
C. W. Hewitt, D.I.C.T.A., Agricultural Chemist.	2
VETERINARY SERVICES AND ANIMAL HUSBANDRY	1 16
P. D. L. Guilbride, B.Sc., M.R.C.V.S., Senior Veterinary Officer.	15, 16
C. W. Hewitt, D.I.C.T.A., Agricultural Chemist.	1, 16

COLONIAL TERRITORIES	
	Subject
R. C. Glover, M.R.C.V.S., Veterinary Officer.	1, 16
D. L. Diamond, D.V.M., Veterinary Officer.	1, 16
1. 1. Docky, Diviti, Control Street	1, 14, 17
D. W. Rodriquez, M.Sc., B.A., Poultry Specialist.	1, 18
DEPARTMENT OF FORESTRY	
	1, 10, 11
E. M. Brown, Assistant Conservator of Forests.	10, 11
L. V. Burns, B.A. (Hons.) (Oxon), Junior Assistant Conservator of	3, 10, 11
Forests.	10
W. A. P. Snaith, Forest Settlement Officer.	10
J. H. Sparkes, District Supervisor.	10
H. H. Henry, District Supervisor.	10
T. B. Scott, District Supervisor.	10
DEPARTMENT OF THE GOVERNMENT CHEMIST	r
W. L. Barnett, M.A., B.Sc., F.R.I.C., Government Chemist. 5,	8, 24, 25
N. Kirby, B.Sc., A.R.I.C., Deputy Government Chemist.	24
	*
LEEVALARD ICLANDS	
LEEWARD ISLANDS	
R. B. Allnutt, B.Sc. (Agr.) (Lond.), Director of Agriculture. 2, 7,	8, 14, 17
Antigua	
C. A. S. Hynam, D.I.C.T.A., Agricultural Superintendent: peasant 2,	7, 8, 14,
development studies.	15, 17
E. R. H. Martin, D.I.C.T.A., Assistant Agricultural Superintendent.	2, 7, 8
St. Kitts-Nevis	
	7, 14, 17
16. D. IKOBICK, High common Superimentation.	/, IT, I/
Montserrat	
W. E. Bassett, M.B.E., Agricultural Superintendent.	4, 7
Virgin Islands Molecular Winter Agricultural Assistant	
Malcolm Winter, Agricultural Assistant.	1
TRINIDAD AND TOBAGO	
DEPARTMENT OF AGRICULTURE	
DETARTMENT OF AGRICULTURE	
Port of Spain	
E. W. Leach, B.Sc. (Agr.), A.I.C.T.A., Director of Agriculture	1
C. H. B. Williams, M.A., A.I.C.T.A., D.I.C.T.A., Deputy Director of	î
Agriculture: crop husbandry.	
H. V. M. Metivier, O.B.E., B.Sc., M.R.C.V.S., Deputy Director of	1
Agriculture: animal husbandry.	
Vacant. Chief Scientific Officer.	
Vacant. Senior Agricultural Officer.	

R. G. Fennah, M.A., A.I.C.T.A., Entomologist.	Subject 19
Vacant. Plant Pathologist.	
Vacant. Soil Chemist. B. G. Montserin, Ph.D., M.Sc., B.S.A., Cocoa Agronomist.	9
Vacant. Marketing and Co-operative Officer.	
D. B. Murray, B.A. (Cantab.), A.I.C.T.A., Economic Botanist.	3
A TO THE HEAD TO THE TO THE TOTAL COMMITTEE T	, 16, 17
A. V. Hall, D.V.M., D.V.P.H., Veterinary Officer. J. L. Shannon, D.V.M., Veterinary Officer (Temporary).	1
S. P. Bennett, D.V.M., Veterinary Officer (Part-time).	1
M. N. Lucie-Smith, M.A., B.Sc. (Agr.), A.I.C.T.A., Dip. Agr.,	-
Agronomist.	
E. G. Benson, B.Sc., A.I.C.T.A., Dip. Agr., Agricultural Officer.	1
F. D. Davies, Agricultural Officer. G. P. Blair, B.Sc., D.I.C.T.A., Agricultural Officer.	1
J. F. Bell, B.Sc. (Agr.), Agricultural Officer.	\cdot \cdot \cdot $\hat{1}$
R. Barrie-Smith, B.Sc., Dip.Agr., Agricultural Officer.	1
Vacant. Agricultural Officer.	
R. Ross, Manager, St. Augustine Station. G. C. Witt, B.Sc., A.R.C.S., Soil Survey Officer.	1 2
D. H. Constable, M.Sc., B.Sc., A.R.C.S., D.I.C., Soil Survey Officer.	2
Vacant. Sugar Agronomist.	
Vacant. Veterinary Officers (2)	
WINDWARD ISLANDS	
S. A. Schouten, D.I.C.T.A., Agricultural Superintendent.	1
Grenada	
G. B. Gregory, Dip.Agr., I.C.T.A., Agricultural Superintendent.	1
Dominica L. L. de Verteuil, D.I.C.T.A., Agricultural Superintendent.	1
L. L. de Verteun, D.I.C.I.A., Agriculural Superimental.	
aint Vincent	
M. A. G. Hanschel, B.A., D.I.C.T.A., Agricultural Superintendent.	1
MEDITERRANEAN	
CABBLIC	
CYPRUS	
DEPARTMENT OF AGRICULTURE	
Vacant, Director of Agriculture.	1
H. Hirst, M.Sc., Dip.Agr. (Cantab.), N.D.A., N.D.D., Assistant	1
Director of Agriculture.	19
H. M. Morris, M.Sc., F.R.E.S., Entomologist: entomological and	1.9
sericultural investigations. L. J. S. Littlejohn, B.Sc. (Hons.), A.I.C.T.A., Soil Conservation 7, 8	3, 12, 26
Officer: agronomy; soil conservation.	

	Subject
G. Corbett, Agricultural Officer, Tobacco Officer: tobacco investi-	4, 12
gations. C. C. Parisinos, B.Sc., A.I.C.T.A., Agricultural Officer. In charge of Central Experimental Farm.	7, 8, 12
P. A. Loizides, Ph.D., B.Sc. (Hons.), Agricultural Chemist: general	2, 5, 24
chemistry; soil and manures. Vacant. Seed Production Officer: production of commercial seed	. 12
P. Chr. Antoniades, I.A. (MI.), C.M.A. (Fs.), Viticulturist and Wine Expert: vine and wine problems.	
R. J. Roe, O.B.E., M.R.C.V.S., D.V.S.M., Chief Veterinary Officer: general veterinary and livestock investigations.	16, 17, 22
R. W. Crowther, B.Sc., M.R.C.V.S., Veterinary Research Officer:	
veterinary pathology and helminthology.	22
Vacant. Veterinary Officer: general veterinary pathological investigations.	•
K. W. Richards, N.D.A., N.D.D., Livestock Officer: animal breeding; production and management.	14, 17, 18
Miss D. P. Eeles, N.D.P., C.D.P., Poultry Officer: poultry hus-	18
bandry.	, And a second
Nicosia.	
R. R. Waterer, C.B.E., M.A., Dip. For. (Cantab.), Conservator of Forests.	1
G. W. Chapman, M.B.E., B.A., Dip.For. (Cantab.), Assistant Con-	10
servator of Forests: forest management problems and erosion and water catchment investigations. (Seconded for duty in	
Iraq for a period of 3 years). E. H. Probyn, M.A. (For.) (Oxon.), Assistant Conservator of Forests:	10
management; erosion and water catchment investigation. W. A. Gordon, M.A. (For.) (Oxon.), Dip. in Anthropology (Oxon.),	10
Barrister-at-Law, Inner Temple, Assistant Conservator of Forests: general investigations relating to local silvicultural problems.	
D. F. Davidson, B.Sc. (For.) (Aberdeen), Assistant Conservator of	10
Forests: general investigations relating to local silvicultural problems.	
I. Sidki, B.Sc. (For.) (Edin.), Assistant Conservator of Forests, Working Plans Officer: general investigations relating to local	10
silvicultural problems. T. A. Couppis, B.A. (For.) (Oxon.), Assistant Conservator of Forests:	10
general investigations relating to local silvicultural problems.	
MALTA	
DEPARTMENT OF AGRICULTURE	
Valetta.	
R. Biasini, Director of Agriculture.	1
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pathological and entomological investigations in connection with Maltese Agriculture.	6

COLONIAL TER	KITUKIES
A. Azzopardi, A. and C.E., D.Sc. (Agr.) (Naples), B.E.A., Controller of Agricultural Marketing: economic investigations in relation to marketing of Maltese crops.	Subject 27
T. E. Gatt Rutter, B.Sc., M.R.C.V.S., Principal Government Veter-inary Surgeon.	1
A. Cassar, B.Sc., B.V.Sc., M.R.C.V.S. E. J. Ebeyer Slythe, C.D.D. (Mids.), Livestock and Dairy Officer. G. Cousin, Superintendent of Public Gardens.	14, 15, 18 14, 15 1
J. Debrincat, Agricultural Officer, Gozo.	1
PACIFIC	
BRITISH SOLOMON ISLANDS PROTECTORATE	
D. A. Donald, H.D.A., Senior Agricultural Officer. John J. C. Suckling, Dip. (Massey College, N.Z.), Senior Agriculturist.	1 12, 18
A. R. McNabb, Agricultural Assistant.	12, 19
FIJI	
DEPARTMENT OF AGRICULTURE Suva.	
 C. Harvey, B.Sc. (Agr.), A.I.C.T.A., Director of Agriculture. W. J. Blackie, M.Sc. (N.Z.), F.R.I.C., F.N.Z.I.C., Mem.Soc.Pub. Anal., Deputy Director of Agriculture. 	1 1
 P. L. R. Charlton, B.Sc. (N.Z.), A.N.Z.I.C., Chemist. C. R. Turbet, B.V.Sc. (Syd.), M.R.C.V.S., F.R.S.T.M., Senior Veterinary Officer: general veterinary administration and 	
practice. K. J. Garnett, B.V.Sc. (Syd.): general veterinary practice and field investigations.	16, 21
W. J. A. Payne, B.Sc., Ph.D., Animal Husbandry Officer: investigational work on livestock management and nutrition. B. E. V. Parham, M.A., Senior Agricultural Officer: direction of	18
field extension; economic botany. L. W. Harwood, H.D.A., Agricultural Officer: field extension duti M. D. ffrench-Mullen, A.I.C.T.A., Agricultural Officer: agron-	
omical investigation. R. R. Mason, B.Sc. (Agr.) (Lond.), N. D.A., Agricultural Officer: field extension duties.	7, 8
N. Lamont, M.Agr.Sc. (N.Z.), Agricultural Officer: economic botany; pastures and crops.	12
B. A. O'Connor, B.Sc. Agr., B.A., Entomologist.	19

DEPARTMENT OF FORESTRY

Suva.

J. C. K. Marshall, M.A. (Oxon.), Conservator of Forests.

1, 10, 11

SOUTH ATLANTIC

FALKLAND ISLANDS

J. P. Oliver, Agricultural Officer.

ST. HELENA

Vacant. Agricultural and Forestry Officer.

SOUTH AFRICAN HIGH COMMISSION TERRITORIES

BASUTOLAND

J. G. M. King, M.B.E., C.D.A. (Wye), A.I.C.T.A., Director of Live-	1
stock and Agricultural Services.	
P. A. Bowmaker, B.Sc., Dip.Agr. (Wye), A.I.C.T.A., Principal	1
Agricultural Officer.	
E. T. Fern, M.R.C.V.S., Principal Veterinary Officer.	1
L. H. Collett, M.B.E., Soil Conservation Officer.	1

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Veterinary

P.O. Box 106, Mafeking, Cape Province, Tel.: Mafeking 38.	
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N. H. Boardman, B.V.Sc. (Pretoria), Acting Director of Veterinary	17
Services.	
A. S. Erasmus, B.V.Sc. (Pretoria), Veterinary Officer.	17
P. Casserly, M.R.C.V.S., Veterinary Officer.	17
M. S. Reichert, M.R.C.V.S., D.M.V. (Lwow), Veterinary Officer.	17
G. A. Alford, M.R.C.V.S., Veterinary Officer.	17
D. L. Kelly, M.R.C.V.S., Veterinary Officer.	17
F. H. Bosman, B.Sc., M.Sc.	1

Agriculture

P.O. Box 10, Mahalapye, Bechuanaland Protectorate.	
F. H. Bosman, M.Sc.Agr., Director of Agriculture.	1, 2, 4, 7, 8
I. S. Hutcheson, B.Sc., Agricultural Officer.	2, 4, 7, 8

Forestry

Pharing, P.O. Kanye, via Lobatsi, Bechuanaland Protectorate.	
O. B. Miller, Forest Officer.	1, 10, 11

EMPIRE COTTON GROWING CORPORATION

The Most	Hon. The	Marquess	of	Linlithgow,	K.G.,	President.
James Lit	tlewood, (Chairman.		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

landar Off	Subject
London Office 1a Harrington Road, South Kensington, London, S.W.7. (Tel:	
Kensington 9942). J. C. May, B.A., Director.	1
D. F. Ruston, B.Sc., N.D.A., Dip.Agr., A.I.C.T.A., Secretary.	1
M. H. White, M.A., Assistant Secretary.	1
W. Nowell, C.M.G., C.B.E., D.I.C., Editor of Journal.	1
Africa	
CENTRAL COTTON RESEARCH STATION, Uganda.	
J. B. Hutchinson, C.M.G., Sc.D., M.A., Director.	1, 4
D. MacDonald, B.Sc., A.I.C.T.A. H. L. Manning, M.Sc., Dip. I.C.T.A. plant breeding	4
A. N. Prentice, B.Sc. A.I.C.T.A.)	
H. G. Farbrother, B.Sc. crop husbandry	2, 3, 8
E. O. Pearson, B.A., A.I.C.T.A. insect pest	19
R. C. Rainey, Ph.D., B.Sc., A.R.C.S., D.I.C. control G. M. Wickens, Ph.D., B.Sc.: plant pathology.	6
A. H. Fish, M.B.E., F.C.I.S., Secretary.	6 1
A. L. Stephens, M.B.E., Farm Manager.	1
B. E. M. Petit, Assistant Farm Manager.	1
Anglo-Egyptian Sudan Attached to Ministry of Agriculture, Agricultural Research Division. WAD MEDANI	
R. R. Anson K. C. Barlow, B.Sc. plant breeding and field experiments.	4
R. L. Knight, D.Sc., Ph.D., A.I.C.T.A., Senior Economic Geneticist. J. E. W. Sadd, B.Sc., Junior Economic Geneticist. H. Douwes, D.Sc. (Gron.), Cyto-Geneticist. R. L. Cuany, B.A., Cyto-Geneticist.	4 4 4 4
M. F. Rose, B.A., A.I.C.T.A.: plant breeding.	4
J. E. Peat, B.Sc., A.I.C.T.A. plant breeding and field experi- J. M. Munro, B.Sc. ments.	4
A. G. Bebbington, B.Sc.: plant breeding and insect pest control. H. J. de S. Disney, B.A.: insect pest control.	4, 19 19
Vyasaland	
COTTON EXPERIMENT STATION, P.O. SALIMA.	
H. C. Ducker, B.Sc., N.D.A. W. L. Miller plant breeding and field experi-	4
W. L. Miller S. H. Evelyn, Dip. I.C.T.A. M. S. Hastie, B.Sc.	

	Subject
Nigeria	
SAMARU, ZARIA	
H. E. King, B.Sc., Dip.Agr.: plant breeding.	4
O. A. Geering, B.A., insect pest control.	19
*	

West Indies

COTTON EXPERIMENT STATION, ANTIGUA

J. V. Lochrie, O.B.E., B.Sc. N.D.A., A.I.C.T.A., Cotton Officer for the West Indies: plant breeding and field experiments.

ANGLO-EGYPTIAN SUDAN

Subject

MINISTRY OF AGRICULTURE

Administrative
J. Smith, D.Sc., B.Sc. (For.), Director J. B. Stewart, Dip.Agr. (Edin.), Deputy Director. J. W. Hewison, N.D.A., Dip.Agr. (Reading), Assistant Director: administration. H. Lyon, B.Sc. (Bio- in close touch with administrative field 7, 8, 12, 13, experimental and development work.
chem), Deputy Assistant Director: administration. A. P. Milne, M.A., B.Comm.,
B.Sc. (Agr.), Assistant Director: business. W. Buchanan, B.Sc. (Agr.), N.D.A. (Glasg.), Deputy Assistant Director: business. Besides general responsibility for the Ministry's business undertak- 7, 12, 17, ings (especially cotton) are also 27, 29, 30 specifically concerned with agriculture in the Gash Delta.
A. G. McCall, B.Sc. (Agr.), N.D.A., Secretary, Equatoria Projects 7, 8, 18, 27, Board: administrative and development work in connection 29 with projects and boards. Hussein Abdel Rahman, Deputy Assistant Director (Agriculture): 12, 14, 27, personal assistant to Minister and concerned generally with extension work.
FIELD DIVISION
Agricultural Inspectors
G. H. Bacon, M.A., Dip.Agr. (Cantab.), Mohamed Awam Nimr. J. R. Thomson, B.Sc. (Agr.), B.Sc., Senior Inspector: in general 2, 7, 12, 18, control of White Nile Schemes, and of Sennar and Fung Areas, also Blue Nile Pump Schemes: C. V. Pike, B.Sc. (Agr.), N.D.D., Senior Inspector. J. F. Milne, Dip.Agr., (Glasg.), N.D.D. Gebel Aulia Reservoir on the White Nile. The scheme is irrigated by canal from the Blue Nile dam at Sennar from Liberta March, and have shout 10" of rain.

annually.

July to March, and has about 10" of rain

ANGLO-EGYPTIAN SUDAN

Subject

G. C. O'Farrell, B.A., (Oxon.).

T. Stephenson, N.D.A., C.D.A. developing pump-irrigated small holdings schemes on the White Nile at Dueim, Um Gerr, Fatisa, Hashaaba Wad Nimr and Gondal as an alterantive livelihood for people whose former land is now covered by the Gebel Aulia Reservoir. Rainfall is about 5" annually.

2, 7, 12, 18, 27

R. Newsham, B.Sc. (Agr.): concerned with the rural development 2, 7, 12, 18 of the Sennar and Fung district, which has an annual rainfall of about 15" to 30" and through which the Blue Nile, Rahad and Dinder rivers flow.

Equatoria Province.

K. L. Lea-Wilson, B.A. (Cantab.), A.I.C.T.A.

J. R. Catford, B.Sc. (St. And.), Dip.Agr. (Cantab.).

T. A. T. Leitch, N.D.D., C.D.A., C.D.D. (Glas.)

R. C. Wilkinson, D.Sc. Abdel Rahim Bayoumi.

R. W. Woods, B.Sc., (Agr.), N.D.A., N.D.D.

in addition to large scale extension and development schemes are responsible 2, 4, 7, 8, for local experimental programmes in 18, 27, 29 their respective areas all of which are within rain belt.

Bahr El Ghazal Province

- J. H. Sherwood, B.A., Dip.Agr. (Oxon.), Senior Inspector: de-2, 4, 7, 8, velopment work in rainland belt, particularly with improvement of standards of subsistence farming in an isolated area.
- C. H. Richards, B.Sc., A.R.C.S., Manager, Gash Board.
- J. Steven, B.Sc. (Agr.), N.D.D., Senior Inspector, Gash Delta.
- M. F. Merchant, N.D.A., N.D.D.
- A. Simpson, N.D.A., C.D.A.
- D. B. Casey, B.Sc. (Agr.) Ahmed Rahma.

W. A. Porter, N.D.A., Dip. Agr. (Glasg.)., Senior Inspector, Tokar.

S. M. Blakemore, N.D.A., Dip.Agr. (Harper Adams). concerned with agricultural problems in the Gash Delta which is peculiar in that the land is watered by spates of 2, 7, 8, 12, the river which flows for a few weeks 18, 27, 29 only each year the delta being outside the rain belt.

concerned with agricultural problems in Tokar Delta which is flood irrigated by 2, 7, 8, 12, spates of the River Baraka, during a few 18, 27, 20 weeks each year, the delta being outside the rain belt.

ANGLO-EGYPTIAN SUDAN

13 13, 16

Subject	
Mechanised Crop Production Scheme, Ghadambaliya	
R. G. Laing, B.Sc (Agr.), N.D.D., Senior In-	
spector. concerned with production of grain	
J. Cranston, Dip.Agr., by extensive mechanised farming in	
(Durham). an area near Gedaref in Kassala 2, 7, 8, 12,	
J. R. H. McCallum, Province, which has about 20" rain 18, 27, 29	
B.Agr. (Q.J.B.), Dip. annually. Agr. (Cantab.).	
T. C. Lister.	
Wadie Habashi: supervision and development of Pump Schemes 7, 9, 18	
in Khartoum Province and encouragement of market gardening.	
F. J. Smart, B.A., Dip.Agr. (Cantab.) in general control of Kor-	
A.I.C.T.A., Senior Inspector. dofan agriculture includ- D. Watt-Smyth. dofan agriculture includ- ing the Abu Habl flood 2, 7, 8, 18,	
L. S. Todd, B.Sc. (Agr.). irrigation scheme and the 27, 29	
W. K. Boyd, B.Sc. (Agr.) (Glas.) Nuba Mountains rainland	
J. W. Hext, B.A., Dip.Agr. (Cantab.). stations.	
C. B. Metcalfe, B.Sc. (Agr.), concerned with the development of	
A.A.I., Senior Inspector. peasant agriculture by irrigation in J. S. Manton, B.Sc. (Agr.), the pump schemes and by flood in 2, 7, 8, 18,	
Dip.Agr. (Wye.). the basins of the Nile in Northern 27, 29	
Mohamed el Mahdi Musa. Province, where the rainfall is negligible.	
Mohamed Ali Babiker. G. F. William B.A. Din Arm (Contab.) a control of hind domography (6.13.14)	
C. E. Wilson, B.A., Dip.Agr. (Cantab.): control of bird damage to 6, 13, 14 crops in the central rainland areas.	
F. W. Fisher, Dip.R.H.S.,	
Inspector of Pomology. concerned with development of date	
J. Robbie, Inspector of citrus and other fruit industries and 2, 9, 27, 29.	
Horticulture. L. B. Thrower, B.Sc. of gardens including experimental 30	
(Hort.), Inspector of and research work.	
Horticulture.	
J. H. K. Jefferson, B.A. (Oxon.), Soil Conservation Officer: in 2, 26, 27,	
charge of all problems and projects for soil conservation and for rural water supplies including surface storage.	
Tural water supplies including surface storage.	
GORDON MEMORIAL COLLEGE	
Khartoum.	
School of Agriculture Shambat, Khartoum North. (Tel.: Khatoum 2874).	
B. M. Boyns, B.Sc., Ph.D., Dean. 15, 17, 24	
L. S. Cobley, B.Sc., A.I.C.T.A. 3, 20, 22	
H. S. Darling, B.Sc., B.Agr., A.I.C.T.A.	
J. L. Read, B.Sc. M. Abdel Karim, Dip.Agr. (seconded). 7, 12	
III. FIDURE TANKING SEPTEMBER OF COLUMN SEPTEM	
School of Veterinary Science	
Khartoum. (Tel.: Khartoum 2494). J. B. Polding, Ph.D., B.Sc., M.R.C.V.S., Dean. 16, 22	
M. A. A. El Hagri, B.Sc., F.R.C.V.S.	

M. A. A. El Hagri, B.Sc., F.R.C.V.S.

A. G. Warren, B.Sc., M.R.C.V.S.

	Subject
AGRICULTURAL RESEARCH DIVISION	
R. C. Maxwell Darling, B.A., Chief of Research Division.	1, 19
H. Ferguson, B.Sc. (Agr.), N.D.A., N.D.D., Chief Agronomist.	2, 3
P. de Schlippe, Agr. Eng. (Gembloux), Senior Research Officer, Yambio.	2, 3
S. Gray, B.Sc., Dip.Agr.Sc. (Cantab.), Dip.Agr., A.I.C.T.A., Agronomist.	, 2, 3
M. C. Hattersley, Farm Manager.	7, 8, 12, 14
K. R. M. Anthony, B.Sc., A.I.C.T.A., Agronomist, Yambio. F. W. Andrews, D.Sc. (Lond.), Ph.D., A.R.C.S., Chief Economic Botanist.	2, 3
S. A. J. Tarr, B.Sc., Plant Pathologist.	6, 20, 22
K. W. Jones, M.Sc., Economic Botanist.	3, 12
R. J. V. Joyce, M.Sc., Government Entomologist.	19
W. S. Richards, M.A., D.Ph. (Oxon.), Entomologist.	19
Bashir El Shafie, Inspector, Pest Control.	19
R. R. Anson, Chief Cotton Breeder.	4
R. L. Knight, M.Sc. (Agr.), D.Sc., Ph.D., A.I.C.T.A., Dip.Agr. (Wye), Senior Economic Genetecist.	. 4
M. F. Rose, M.A. (Cantab.), A.I.C.T.A., Senior Cotton Breeder.	4
K. W. Barlow, Cotton Breeder.	4
C. G. Webster, Inspector, Plant Propagation.	7,8
T. N. Jewitt, Ph.D., B.A., Chief Chemist (Soil Research).	2, 24
T. A. Jones, B.Sc., A.R.I.C., Chemist (Soil Research).	2, 24
K. R. Middleton, B.Sc., A.R.I.C., Chemist (Soil Research).	2, 24
FORESTRY DIVISION	
W. L. Marjoribanks, B.Sc., Chief Conservator of Forests: has	10, 11
charge of forestry and forest products experimental and research	
work, including forest introductions.	4.0
I. C. Barlas, B.Sc., Conservator. concerned with experiment-	
T. H. Kipling, B.A., Dip.For., Asst. tal plantations in riverain forest.	
A. B. Rubidge, B.A., Dip.For., Asst. Conservator: concerned with experimental irrigated plantations.	10
G. H. D. Williams, B.Sc., Asst. Conservator: in charge of forest	10
herbarium.	
M. P. Vidal Hall, B.A., Dip.For., Conservator.	
W. E. Marshall, Conservator.	
J. K. Jackson, B.Sc., Asst. Con-	
servator. concerned with research in	10
J. R. Neilson, B.A., Dip.For., control of grass fires and in	
Asst. Conservator. the sylviculture of savannah	ı
D. M. Ramsay, B.Sc., Asst. Con- woodland areas.	
G. A. Booth, B.Sc., Asst. Con-	
servator.	
T. McL. Dow, B.Sc., Asst. Con- servator.	
Scroutor.	

BRITISH MIDDLE EAST OFFICE, CAIRO

The development division of this Office includes a number of specialist officers whose services in their respective spheres are available in a consultative and advisory capacity to the Government of any Middle East country which may desire to avail of them.

country which may desire to avail of them.	
Sir Herbert Stewart, C.I.E., M.Sc., F.R.C.Sc.I., D.I.C., N.D.A.,	1
Agricultural Adviser.	
V. K. Maitland, C.S.I., M.C., M.Sc. (Oxon.), Forestry and Soil Con-	1, 10
servation Adviser.	
J. Murray, M.A. (Hons. Edin.), Ph.D. (Yale), F.R.S.S., Statistical	29
Adviser.	
A. R. Waterston, B.Sc., F.R.S.E., Entomological Adviser.	19
T. Threlkeld, Animal Husbandry Adviser.	1, 18

REPUBLIC OF IRELAND

DEPARTMENT OF AGRICULTURE, DUBLIN	
T. W. Laure D.Co. A. D.C.Co. I. Chief Turabatan	Subject 1
J. Mahony, B.Sc., A.R.C.Sc.I., Chief Inspector.	1
J. F. Timoney, M.R.C.V.S.: veterinary research.	3
H. A. Lafferty, D.Sc., F.R.C.Sc.I.: seed testing and economic botany.	
A. Turner, B.Sc., A.R.C.Sc.I., N.D.H., H.Dip.Ed.: horticulture.	6
D. Delaney, B.Sc., A.R.C.Sc.I.: potato growing.	6
T. Walsh, Ph.D., M.Agr.Sc.: soils; chemistry and classification.	22
G. Van Berneveld Gilmour, Ph.D. (Lond.), B.Sc., A.R.C.Sc.I., F.I.C., Bacteriologist.	44
G. B. Cruess Callaghan, Ph.D., M.Sc., A.I.C., A.R.C.Sc.I., Assistant	22
Bacteriologist.	
Miss B. Murphy, M.Sc., H.Dip.Ed., Assistant Analyst.	22
J. J. Brady, M.Agr.Sc.: plant husbandry.	12
T. J. R. O'Sullivan, B.Agr.Sc.: experimental station.	1
H. Hume, plant breeding.	4
VETERINARY COLLEGE OF IRELAND, DUBLIN	
Prof. T. G. Browne, M.R.C.V.S., Principal: anatomy.	1
Prof. W. Kearney, M.R.C.V.S.: pathology and bacteriology.	16
Prof. A. F. O'Dea, M.R.C.V.S., D.V.S.M.: veterinary medicine and	22
meat inspection.	
Prof. J. A. Nicholson, M.R.C.V.S., M.A., Ph.D.: veterinary phys-	13
iology and bio-chemistry.	
Prof. P. A. McGeady, M.R.C.V.S.: surgery.	13
UNIVERSITY COLLEGE, DUBLIN	
aculty of General Agriculture	
DEPARTMENT OF GENERAL AGRICULTURE	
(FIELD CROPS AND ANIMAL HUSBANDRY)	
Prof. J. P. Drew, M.Sc., technique of crop production including A.R.C.Sc.I. selection of varieties and fertilizer re-	1, 14, 17, 18
F. P. Hussey, B.Agr.Sc., quirements; preservation of grass and 2	
A.R.C.Sc.I., B.Sc., other green fodder; milk inheritance	27
(Econ.). in shorthorn cattle; recording Irish	
D. Deasy, B.Agr.Sc., large white breed of pigs.	2, 7, 8, 12
Ph.D. F. J. O'Connell.	4.0
DEPARTMENT OF AGRICULTURAL BOTANY AND AGRICULTURAL	12, 17
Bacteriology.	
Prof. M. J. Gorman, B.Sc., A.R.C.Sc.I.: grassland; seeds mix-	8
tures and management. D. Slattery, R.Sc., N.D.A., A.R.C.Sc. L., soil beatwist.	2.0
D. Slattery, B.Sc., N.D.A., A.R.C.Sc.I.: soil bacteriology.	22
DEPARTMENT OF AGRICULTURAL CHEMISTRY	
G. F. O'Sullivan, M.Sc.) chemical advisory and analytical advisory advisory and analytical advisory advisory advisory and analytical advisory	
D. Crowley, M.Sc., H.Dip.Ed., A.R.I.C. chemical advisory and analytical work related to agricultural research problems.	24

REPUBLIC OF IRELAND

DEPARTMENT OF AGRICULTURAL ZOOLOGY.	Subject
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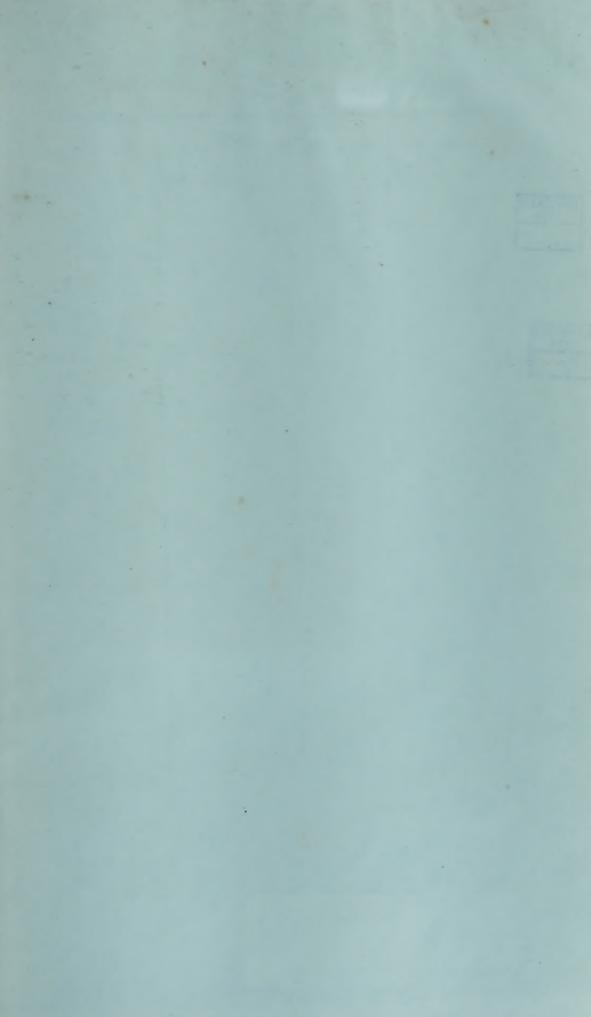
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